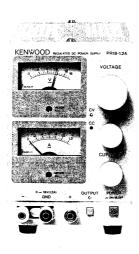


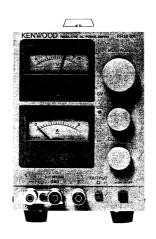
REGULATED DC POWER SUPPLY

# PR18-1.2A PR18-3A PR18-5A PR36-1.2A PR36-3A PR70-1A

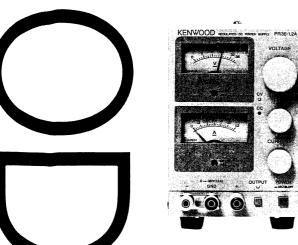
# SERVICE MANUAL

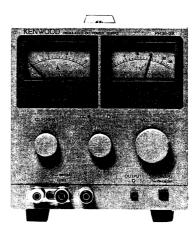
KENWOOD CORPORATION

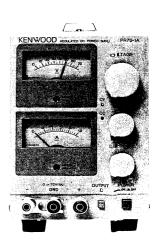












### **ADJUSTMENT**

- To obtain the best performance, periodically calibrate the unit. Sometimes, only one mode need be calibrated, while at other times, all modes should be calibrated. When one mode is calibrated, it must be noted that the other modes may be affected. When calibrating all modes, perform the calibration in the specified sequence.
- The following calibration required an accurate measuring instrument and an insulated adjusting flat blade screwdriver. If they are not available, contact your dealer. For optimum adjustment, turn the power on and warm up the scope sufficiently (more than 30 minutes) before starting.

Before calibrating the scope, check the power supply voltage.

#### **TEST EQUIPMENT REQUIRED**

The following instrument or their equivalent should be used for making adjustment.

Multimeter 45 FLUKE

#### PREPARATION FOR ADJUSTMENT

#### **Control Settings**

The control settings listed below must be used for each adjustment procedure.

Exceptions to these settings will be noted as they occur. After completing a adjustment, return the controls to the following settings.

| NAME OF KNOBS              | POSITION        |
|----------------------------|-----------------|
| CURRENT<br>FINE<br>VOLTAGE | Fully Clockwise |

| Item    | Adjustment VR    | Procedure  |         |  |  |  |  |
|---------|------------------|--|---------|--|--|--|--|
| Voltage | VR1<br>(V. ADJ)  | Turn VR1 clockwise to adjust the to the output voltage setting, then turn the FINE control to adjust to the rated voltage. (Before this adjustment, set VR1 to VR3 to the fully counterclockwise positions.) | able 1. |  |  |  |  |
| Current | VR2<br>(A. ADJ)  | Connect a load and turn VR2 to adjust to the output current setting.   | to T    |  |  |  |  |
| A meter | VR3<br>(AM. CAL) | Set the load for the rated current, and adjust the swing of the ammeter of the main unit with VR3.   | Refer   |  |  |  |  |

| Specifica-<br>tions | Output voltage<br>setting | Output current setting |  |  |
|---------------------|---------------------------|------------------------|--|--|
| Model               | [V]                       | [A]                    |  |  |
| PR18-1.2A           |                           | 1.28                   |  |  |
| PR18-3A             | 18.5                      | 3.19                   |  |  |
| PR18-5A             |                           | 5.3                    |  |  |
| PR36-1.2A           |                           | 1.28                   |  |  |
| PR36-3A             | 37                        | 3.19                   |  |  |
| PR70-1A             | 72                        | 1.06                   |  |  |

Table 1

### PR18-1.2A

### Y86-1850-00

| REF. NO | PARTS NO  A01-1236-08  A63-0112-08  B31-0755-08  B31-0756-08  B40-2737-24  B42-3731-08  B42-3734-08  B42-3735-08  B42-3755-08  B42-3755-08  B42-3755-08  B42-3755-08  B42-3755-08  B42-3755-08  B42-3755-08  B42-3750-08  B42-3751-08  B42-3752-08   | NAME & DESCRIPTION  COVER FRONT PANEL METER: VOLT METER: CURRENT SERIAL NO. PLATE MASTER/SLAVE LABEL RATING: AC100V 50/60HZ 45W FUSE RATING LABEL RATING: AC120V 50/60HZ 45W RATING: AC220V 50/60HZ 45W RATING: AC120V 60HZ 45W RATING: AC240V 50/60HZ 45W RATING: AC240V 50/60HZ 45W RATING: AC240V 50/60HZ 45W RATING: AC240V 50/60HZ 45W TERMINAL, RED TERMINAL, RED TERMINAL, BED TERMINAL, BLACK TERMINAL, WHITE |
|---------|---|---|
|         | $\begin{array}{c} E\ 2\ 9\ -\ 0\ 5\ 0\ 6\ -\ 0\ 4\\ E\ 2\ 9\ -\ 0\ 5\ 4\ 2\ -\ 0\ 8\\ E\ 3\ 0\ -\ 0\ 5\ 4\ 5\ -\ 0\ 5\\ E\ 3\ 0\ -\ 0\ 5\ 7\ 1\ -\ 1\ 5\\ E\ 3\ 0\ -\ 0\ 5\ 7\ 1\ -\ 1\ 5\\ E\ 3\ 0\ -\ 1\ 8\ 1\ 5\ -\ 0\ 5\\ E\ 3\ 0\ -\ 1\ 8\ 1\ 5\ -\ 0\ 5\\ F\ 0\ 1\ -\ 0\ 8\ 8\ 4\ -\ 0\ 8\\ F\ 0\ 5\ -\ 8\ 0\ 1\ 3\ -\ 0\ 8\\ F\ 0\ 5\ -\ 8\ 0\ 1\ 5\ -\ 0\ 8\\ F\ 0\ 5\ -\ 8\ 0\ 1\ 5\ -\ 0\ 8\\ F\ 0\ 5\ -\ 8\ 0\ 1\ 5\ -\ 0\ 8\\ H\ 1\ 0\ -\ 2\ 8\ 5\ 3\ -\ 0\ 8\\ H\ 1\ 0\ -\ 2\ 8\ 5\ 3\ -\ 0\ 8\\ H\ 1\ 0\ -\ 2\ 8\ 5\ 5\ -\ 0\ 8\\ H\ 1\ 0\ -\ 2\ 8\ 5\ 8\ -\ 0\ 8\\ H\ 1\ 0\ -\ 2\ 8\ 5\ 8\ -\ 0\ 8\\ H\ 1\ 0\ -\ 2\ 8\ 5\ 8\ -\ 0\ 8\\ H\ 1\ 0\ -\ 2\ 8\ 5\ 8\ -\ 0\ 8\\ H\ 1\ 0\ -\ 2\ 8\ 5\ 8\ -\ 0\ 8\\ H\ 1\ 0\ -\ 2\ 8\ 5\ 8\ -\ 0\ 8\\ H\ 1\ 1\ -\ 0\ 8\ 1\ 1\ -\ 0\ 8\\ H\ 1\ 0\ -\ 2\ 8\ 5\ 8\ -\ 0\ 8\\ H\ 1\ 1\ -\ 0\ 8\ 1\ 1\ -\ 0\ 8\\ H\ 1\ 0\ -\ 2\ 8\ 5\ 8\ -\ 0\ 8\\ H\ 1\ 0\ -\ 2\ 8\ 5\ 8\ -\ 0\ 8\\ H\ 1\ 0\ -\ 2\ 8\ 5\ 3\ -\ 0\ 8\\ H\ 1\ 0\ -\ 2\ 8\ 5\ 3\ -\ 0\ 8\\ H\ 1\ 0\ -\ 2\ 8\ 5\ 3\ -\ 0\ 8\\ H\ 1\ 0\ -\ 2\ 8\ 5\ 3\ -\ 0\ 8\\ H\ 1\ 0\ -\ 2\ 8\ 5\ 3\ -\ 0\ 8\\ H\ 1\ 0\ -\ 2\ 8\ 5\ 3\ -\ 0\ 8\\ H\ 1\ 0\ -\ 2\ 8\ 5\ 3\ -\ 0\ 8\\ H\ 1\ 0\ -\ 2\ 8\ 1\ 1\ 0\ 8\\ H\ 1\ 0\ -\ 2\ 8\ 1\ 1\ 0\ 8\\ H\ 1\ 0\ -\ 2\ 8\ 1\ 1\ 0\ 8\\ H\ 1\ 0\ 8\ 1\ 1\ 0\ 8\\ H\ 1\ 0\ 8\ 1\ 1\ 1\ 0\ 8$ 1\ 1\ 1\ 0\ 8 1\ 1\ 1\ 0\ 8 1\ 1\ 1\ 0\ 8 1\ 1\ 1\ 0\ 8 1\ 1\ 1\ 1\ 0\ 8 1\ 1\ 1\ 1\ 0\ 8 1\ 1\ 1\ 1\ 0\ 8 1\ 1\ 1\ 1\ 0\ 8 1\ 1\ 1\ 1\ 1\ 0\ 8 1\ 1\ 1\ 1\ 1\ 0\ 8 1\ 1\ 1\ 1\ 1\ 1\ 1\ 1\ 1\ 1\ 1\ 1\ 1\ | SHORTING BAR LUG; M3  UL/CSA POWER CORD JIS POWER CORD SAA POWER CORD CEE POWER CORD HEAT SINK FUSE(5X20MM) 0.8A/250V FUSE(6X32MM) 0.8A/250V INSULATOR; FOR Q6 FUSE 1.5A/125V FOAMED STYRENE PAD (FRONT) FOAMED STYRENE PAD (REAR) STYRENE PAD; 83X115X30MM STYRENE PAD; 154X205X30MM VINYL COVER CARTON BOX  |
| V R 0 1 | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$   | FOOT CLAMPER; FOR 2-CORE AC CORD CLAMPER; FOR 3-CORE AC CORD BRACKET; FOR P.C.B BRACKET; FOR P.C.B BRACKET; FOR AC CORD BUSHING VOLUME SPACER; FOR VRO1 BUSHING; FOR 2-CORE AC CORD BUSHING; FOR 2-CORE AC CORD KNOB KNOB; FINE/CURRENT KNOB, OUTPUT PUSH BUTTON, ORANGE; POWER POWER TRANSFORMER SCREW, SEMS PAN HD M3X6 SCREW, SEMS PAN HD M4X10 SCREW, SEMS BINDING TAPTITE 3X6 SCREW, SEMS PAN HD M3X10 SCREW, SEMS TAPTITE 3X10 FLANGE NUT SCREW, BINDING TAPTITE 3X10 PUSH SWITCH; POWER AMP UNIT VOLUME                    |

### PR18-1.2A AMP UNIT

### W02-2267-08

| REF. NO  | PARTS NO E 21-0674-08 E 40-7141-08 E 40-7142-08 J 13-0518-08 J 73-0326-08 R 9 2-0150-05 R 9 2-1061-05                     | NAME & DESCRIPTION EXTERNAL OUTPUT TERMINAL PIN CONNECTOR 2P(LINE VOLTAGE) PIN CONNECTOR 1P(LINE VOLTAGE) FUSE CLIP:FOR 6X30MM PCB (UNMOUNTED) JUMPING RES. ZERO OHM (10MM) JUMPING RES. ZERO OHM (5MM) |
|--|---|---|
| C I<br>C 2<br>C 3<br>C 4<br>C 5                      | C 9 0 - 3 0 2 3 - 0 8<br>C Q 9 2 M 1 H 1 0 2 K<br>C 9 1 - 2 5 5 9 - 0 8<br>C Q 9 2 M 1 H 4 7 2 K<br>C Q 9 2 M 1 H 1 0 3 K | CAP. ELECTRO 470 105 C 35 V CAP. HYLAR 1000P 10 % 50 V CAP. CERAMIC 0.1 0.25 P 50 V CAP. HYLAR 4700P 10 % 50 V CAP. MYLAR 0.01. 10 % 50 V   |
| C 6<br>C 7<br>C 8                                    | NO USE<br>C90-3020-08<br>CF93AN2ER22K   | CAP. ELECTRO 100 105°C 25 V<br>CAP. POLYESTER 0.22P 10% 250 V   |
| C 9<br>C 1 0<br>C 1 1                                | NO USE<br>C90-3021-08<br>CF93ANIJR22K   | CAP. ELECTRO 2200 105°C 35V<br>CAP. POLYESTER 0.22P 10% 63V   |
| C 2 2  | C 9 1 - 2 5 5 9 - 0 8   | CAP. CERAMIC 0.1 0.25P 50V  |
| C 2 6<br>C 2 7                                       | C 9 0 - 3 1 7 4 - 0 8<br>N 0 U S E  | CAP. ELECTRO 10 1% 50V  |
| C 2 8<br>C 2 9                                       | C 9 0 - 3 0 2 0 - 0 8<br>C 9 1 - 2 5 5 9 - 0 8  | CAP. ELECTRO 100 105°C 25 V CAP. CERAMIC 0.1 0.25 P 50 V  |
| C 3 2  | C F 9 3 A N 1 J 1 R 0 K   | CAP. POLYESTER 1P 10% 63V   |
| C N 1<br>C N 2<br>C N 3                              | E 4 0 - 7 2 1 8 - 0 8<br>E 4 0 - 7 3 4 4 - 0 8<br>N O USE   | PIN CONNECTOR 2P<br>PIN CONNECTOR 3P  |
| C N 4<br>C N 5                                       | E 4 0 - 7 1 2 6 - 0 8<br>E 4 0 - 7 2 1 9 - 0 8  | PIN CONNECTOR 2P<br>PIN CONNECTOR 3P  |
| C N 6<br>C N 7                                       | NO USE<br>E40-7229-08   | PIN CONNECTOR 4P  |
| C N 1 1<br>C N 1 2<br>C N 1 3                        | E 4 0 - 7 3 3 2 - 0 8<br>E 4 0 - 7 3 3 3 - 0 8<br>E 4 0 - 7 3 3 3 - 0 8   | PIN CONNECTOR 4P PIN CONNECTOR 2P PIN CONNECTOR 2P  |
| C N 1 8  | E 4 0 ~ 7 4 4 0 ~ 0 8   | CONNECTOR   |
| C N 2 3<br>C N 2 4                                   | E 4 0 - 3 2 4 0 - 0 5<br>E 4 0 - 7 3 3 3 - 0 8  | PIN CONNECTOR 5P<br>PIN CONNECTOR 2P  |
| C 0 1  | C 9 0 - 3 0 1 8 - 0 8   | CAP. ELECTRO 1 105°C 50V  |
| C 0 1<br>C 0 2                                       | C 9 1 - 1 3 2 3 - 0 8<br>N O USE  | CAP. CERAMIC 0.1 20% 250 V  |
| C 0 3  | C 9 0 - 3 0 4 6 - 0 8   | CAP. ELECTRO 100 105°C 50V  |
| D 1<br>D 2<br>D 3<br>D 4<br>D 5<br>D 6<br>D 7<br>D 8 | 1 B 4 B 4 2<br>E R A 1 5 - 0 1<br>1 S S 2 7 0 A<br>1 S S 2 7 0 A<br>1 S S 2 7 0 A<br>1 S S 2 7 0 A<br>N O USE             | DIODE, STACK DIODE DIODE DIODE DIODE DIODE DIODE DIODE DIODE  |
| 09   |   | DIODE, STACK  |
| D 1 4<br>D 1 5<br>D 1 6                              | 1 S S 2 7 0 A<br>1 S S 2 7 0 A<br>1 S S 2 7 0 A   | D 1 0 D E<br>D 1 0 D E<br>D 1 0 D E   |
| D 2 8  | 1 S S 2 7 0 A   | DIODE   |
| D 3 3<br>D 3 4                                       | ERA15-01<br>1SS270A   | D I O D E   |
| D 3 7<br>D 3 8<br>D 3 9                              | ERA15-01<br>1SS270A<br>ERA15-01   | D10DE<br>D10DE<br>D10DE   |
| D O 1  | E R A 1 5 - 0 1   | DIODE   |
| I C 1<br>I C 2<br>I C 3                              | UPC151C<br>UPC151C<br>UPC1093J  | IC,OP AMP<br>IC,OP AMP<br>IC,VARIABLE SHUNT REGULA TOR  |
| 1 C 9  | N A 1 7 8 L 1 2 A   | IC, TERMINAL FIXED VOLTAGE REG.   |
| LEDI<br>LED2   | 1. N 2 2 2 R P<br>1. N 3 2 2 G P  | LED; RED<br>LED; GREEN  |
| L E D O 1  | I. N 2 2 2 R P  | t, E D; R E D   |
| Q 1<br>Q 2<br>Q 3<br>Q 4                             | 2 S C 1 8 1 5 (G R)<br>2 S C 1 8 1 5 (G R)<br>2 S C 1 8 1 5 (G R)<br>2 S C 1 8 1 5 (G R)                                  | TR. SI, NPN TR. SI, NPN TR. SI, NPN TR. SI, NPN   |

| REF. NO<br>Q5<br>Q6<br>Q7<br>Q8   | PARTS NO<br>2SC1815(GR)<br>2SD1148(0)<br>NO USE<br>2SC3421(Y)  | NAME & DESCRIPTION TR. SI, NPN TR. SI, NPN TR. SI, NPN  |
|---|--|---|
| Q I 5<br>Q I 6<br>Q I 7   | 2 SC 1815 (GR)<br>NO USE<br>DTA143 EF  | TR. SI, NPN<br>TR. DIGITAL  |
| R 1<br>R 2  | R D I 4 B B 2 C 1 2 2 J<br>R D I 4 B B 2 C 1 2 3 J   | RES. CARBON 1.2K 5% 1/6W RES. CARBON 12K 5% 1/6W  |
| R 2<br>R 3<br>R 4<br>R 5<br>R 6<br>R 7<br>R 8<br>R 9<br>R I 0<br>R I 1<br>R I 2 | R D1 4 DB 2 H 3 O 2 J<br>R D1 4 BB 2 C 3 O 2 J<br>R D1 4 BB 2 C 5 1 O J<br>R D1 4 BB 2 C 6 8 2 J<br>R D1 4 BB 2 C 2 7 3 J<br>R N1 4 B B 2 C 2 O 2 J<br>R D1 4 BB 2 C 2 O 2 J<br>R D1 4 BB 2 C 1 O 2 J<br>R D1 4 BB 2 C 5 1 3 J<br>R D1 4 BB 2 C 5 1 3 J<br>R D 0 U S E | RES. CARBON     3 K     5 %     1 / 2 W       RES. CARBON     3 K     5 %     1 / 6 W       RES. CARBON     5 1     5 %     1 / 6 W       RES. CARBON     6 . 8 K     5 %     1 / 6 W       RES. CARBON     2 7 K     5 %     1 / 6 W       RES. METAL FILM     5 . 1 K     1 %     1 / 6 W       RES. CARBON     2 K     5 %     1 / 6 W       RES. CARBON     4 . 7 K     5 %     1 / 6 W       RES. CARBON     5 K     5 %     1 / 6 W       RES. CARBON     5 K     5 %     1 / 6 W       RES. CARBON     5 K     5 %     1 / 6 W |
| R I 3<br>R I 4<br>R I 5<br>R I 6<br>R I 7                                       | R DI 4 B B 2 C 2 O 2 J<br>R DI 4 B B 2 C 1 5 2 J<br>R DI 4 B B 2 C 5 I 1 J<br>R DI 4 B B 2 C 5 I 2 J<br>NO USE   | RES. CARBON     2 K     5 %     1/6 W       RES. CARBON     1.5 K     5 %     1/6 W       RES. CARBON     510     5 %     1/6 W       RES. CARBON     5.1 K     5 %     1/6 W   |
| R 1 8<br>R 1 9<br>R 2 0<br>R 2 1<br>R 2 2<br>R 2 3<br>R 2 4                     | R D I 4 B B 2 C 5 1 3 J<br>R D I 4 B B 2 C 1 0 3 J<br>R D I 4 B B 2 C 1 0 2 J  | RES. CARBON     51 K     5%     1/6 W       RES. CARBON     10 K     5%     1/6 W       RES. CARBON     1 K     5%     1/6 W       RES. HETAL FILM     16 0 K     1%     1/6 W       RES. CARBON     1 K     5%     1/6 W       RES. METAL FILM     9.1 K     1%     1/6 W       RES. METAL FILM     3 K     1%     1/6 W   |
| R 2 7<br>R 2 8<br>R 2 9   | R D1 4 B B 2 C 1 O 2 J<br>R D1 4 B B 2 C 1 O 3 J<br>R S1 4 G B 3 D 1 5 2 J   | RES. CARBON 1K 5% 1/6W RES. CARBON 1OK 5% 1/6W RES. METAL FILM 1.5K 5% 2W   |
| R 4 0   | R N I 4 B K 2 C 1 8 0 0 F  | RES. METAL FILM 180 1% 1/6W   |
| R 1 4<br>R 1 5  | R D   4 B B 2 C 1 O 1 J<br>R D   4 D B 2 II 2 O 2 J  | RES. CARBON 100 5% 1/6W<br>RES. CARBON 2K 5% 1/2W   |
| R 6 7   | R S I 4 G B 3 D R 4 3 J  | RES. METAL FILM 0.43 5% 2W  |
| R 7 4<br>R 7 5<br>R 7 6<br>R 7 7  | R DI 4 B B 2 C 1 O 2 J<br>R DI 4 D B 2 H 2 O 2 J<br>R DI 4 B B 2 C 1 O 2 J<br>NO USE   | RES. CARBON 1 K 5% 1/6 W RES. CARBON 2 K 5% 1/2 W RES. CARBON 1 K 5% 1/6 W  |
| R 7 8<br>R 7 9  | R D14BB2C102J<br>R D14DB2H102J   | RES. CARBON 1K 5% 1/6W<br>RES. CARBON 1K 5% 1/2W  |
| R 8 5   | R D   4 D B 2 H 1 O 1 J  | RES. CARBON 100 5% 1/2W   |
| R 8 8<br>R 8 9  | R D14BB2C104J<br>NO USE  | RES. CARBON 100K 5% 1/6W  |
| R 9 0<br>R 9 1  | R D1 4 BB 2 C 1 0 2 J<br>R D1 4 BB 2 C 1 0 3 J<br>R D1 4 BB 2 C 1 0 2 J<br>R D1 4 BB 2 C 1 0 2 J<br>R D1 4 BB 2 C 2 0 5 J<br>R D1 4 BB 2 C 1 0 0 J<br>NO USE<br>R D1 4 BB 2 C 9 1 2 J  | RES. CARBON 1 K 5% 1/6 W RES. CARBON 1 O K 5% 1/6 W RES. CARBON 1 K 5% 1/6 W RES. CARBON 2 M 5% 1/6 W RES. CARBON 1 O 5% 1/6 W RES. CARBON 9, 1 K 5% 1/6 W  |
| R O 1   | R N14BK2C1003F   | RES. METAL FILM 100K 1% 1/69  |
|   | \$ 76 - 06 0 4 - 08  | RELAY   |
|   | NO USE<br>S 76 - 06 04 - 08<br>S 76 - 06 30 - 08   | RELAY<br>RELAY  |
|   | S 68 - 0631 - 05<br>S 31 - 1512 - 08   | OUTPUT SW<br>NASTER/SLAVE SWITCH  |
|   | R 12 - 1565-08<br>R 12-3568-08<br>R 12-0597-08   | RES. SEMI FIXED 2KB<br>RES. SEMI FIXED 30KB<br>RES. SEMI FIXED 100  |

Z D 1

| P | R | 1 | 8- | 3 | Α |
|---|---|---|----|---|---|
|---|---|---|----|---|---|

|            | Y86-1860-00                                       |  |  |  |  |
|------------|---|--|--|--|--|
|            | PARTS NO  | NAME & DESCRIPTION   |  |  |  |
|            | 01-1237-08  | CASE<br>FRONT PANEL  |  |  |  |
|            | 31-0754-08  | METER; CURRENT   |  |  |  |
|            | 31-0755-08  | METER; VOLT  |  |  |  |
|            | 40-2737-24<br>42-3731-08                          | SERIAL NO. PLATE<br>HASTER/SLAVE LABEL                     |  |  |  |
| В          | 42-3733-08  | FUSE RATING LABEL  |  |  |  |
|            | 42-6035-08<br>42-6036-08                          | RATING; AC100V 50/60HZ 100W<br>RATING: AC120V 50/60HZ 100W |  |  |  |
|            | 42-6037-08  | RATING: AC220V 50/60HZ 100W                                |  |  |  |
|            | 12-6038-08  | RATING; AC240V 50/60HZ 100W<br>RATING: AC120V 60HZ 100W    |  |  |  |
|            | 42-6039-08<br>63-0173-00                          | RATING; AC120V 60HZ 100W INSTRUCTION MANUAL; JAPANESE      |  |  |  |
| В          | 63-0174-00  | INSTRUCTION MANUAL; ENGLISH                                |  |  |  |
|            | 21-0670-03  | TERMINAL, RED<br>TERMINAL, BLACK                           |  |  |  |
|            | 21-0672-03  | TERMINAL, WHITE  |  |  |  |
|            | 29-0506-04  | SHORTING BAR<br>LUG; M3                                    |  |  |  |
|            | 29-0542-08<br>30-0027-35                          | UL/CSA POWER CORD  |  |  |  |
|            | 30-0545-05  | JIS POWER CORD   |  |  |  |
|            | 30-0571-15<br>30-1815-05                          | SAA POWER CORD<br>CEE POWER CORD                           |  |  |  |
| E :        | 30-1867-05  | BS POWER CORD  |  |  |  |
|            | 0   - 0 8 8 5 - 0 8<br>0 5 - 2 0 2 1 - 0 8        | HEAT SINK<br>FUSE(5X2ONN) 2A/250V                          |  |  |  |
| F          | 05-2023-05  | FUSE(6X32NN) 2A/250V                                       |  |  |  |
|            | 29-0515-08  | INSULATOR; FOR Q6<br>INSULATOR; FOR Q6/Q11                 |  |  |  |
|            | 29-0517-08<br>51-0009-08                          | FUSE(6X30MM) 3A/125V                                       |  |  |  |
|            | 10-2853-08  | FOAMED STYRENE PAD (FRONT)                                 |  |  |  |
|            | 10-2854-08  | FOAMED STYRENE PAD (REAR)<br>VINYL COVER                   |  |  |  |
| 11 5       | 53-0112-08  | CARTON BOX   |  |  |  |
|            | 02-0529-08  | FOOT<br>CLAMPER: FOR 2-CORE AC CORD                        |  |  |  |
|            | 19-1672-08  | CLAMPER; FOR 3-CORE AC CORD                                |  |  |  |
|            | 21-4720-08  | BRACKET; FOR P.C.B<br>BRACKET; FOR AC CORD BUSHING         |  |  |  |
|            | 21-4758-08<br>29-0519-08                          | BRACKET; FOR AC CORD BUSHING BRACKET; FOR P. C. B          |  |  |  |
| J:         | 30-0635-08  | VOLUME SPACER; FOR VROI                                    |  |  |  |
|            | 12-0083-05<br>12-0085-05                          | BUSHING; FOR 2-CORE AC CORD<br>BUSHING; FOR 3-CORE AC CORD |  |  |  |
| K (        | 01-0417-05  | HANDLE   |  |  |  |
|            | 21-0907-14  | KNOB<br>KNOB; FINE/CURRENT                                 |  |  |  |
|            | 21-3006-04  | KNOB, OUTPUT   |  |  |  |
|            | 27-0509-04  | PUSH BUTTON, ORANGE; POWER                                 |  |  |  |
|            | )7-1517-08<br>)9-0718-05                          | POWER TRANSFORMER<br>SCREW, SENS PAN HD M3X6               |  |  |  |
| N C        | 9-0757-05   | SCREW, SEMS BINDING TAPTITE 3X                             |  |  |  |
|            | ) 9 - 0 7 7 6 - 0 5<br>) 9 - 0 7 7 7 - <b>0</b> 5 | SCREW, SEMS PAN HD M3X10<br>SCREW, SEMS PAN HD M4X6        |  |  |  |
|            | 9-0789-05   | SCREW, SENS PAN ND H3X10                                   |  |  |  |
|            | ) 9 - 0 7 9 7 - 0 8<br>  4 - 0 4 0 4 - 0 4        | SCREW, SEMS TAPTITE 3X10<br>FLANGE NUT N3                  |  |  |  |
|            | 39-3006-41  | SCREW, BINDING TAPTITE 3X6                                 |  |  |  |
| N 8        | 39-3012-41  | SCREW, BINDING TAPTITE 3X12                                |  |  |  |
|            | 10-2533-08  | PUSH SWITCH; POWER AMP UNIT                                |  |  |  |
| VRO1 R2    | 29-3503-08  | VOLUME 10K   |  |  |  |
|            | 29-1508-08<br>29-3504-08                          | VOLUME 1 K<br>VOLUME 1 O K                                 |  |  |  |
| . 11 O R 2 | 0004 00   |  |  |  |  |
|            |   |  |  |  |  |

|  |   | 3-3A AMP UNIT  | REF. NO   | 2 S C 1 8 1 5 ( G R )   | NAME & DESCRI<br>TR. SI, NPN  | P T 1 O N                          |  |
|--|---|--|---|---|---|------------------------------------|--|
|  | Ŋ   | /02-2268-08  | Q 5<br>Q 6  | 2 S C 1 8 1 5 (G R)<br>2 S D 1 1 4 8 (O)  | TR. SI, NPN TR. SI, NPN   |                                    |  |
| REF. NO  | PARTS NO E21-0674-08 E40-7141-08 E40-7142-08 J13-0518-08 R92-0150-05              | NAME & DESCRIPTION  EXTERNAL OUTPUT TERMINAL PIN CONNECTOR 2P(LINE VOLTAGE) PIN CONNECTOR 1P(LINE VOLTAGE) FUSE CLIP:FOR 6X30MM JUMPING RES. ZERO OHM (10MM) JUMPING RES. ZERO OHM (5MM) | Q7<br>Q8<br>Q9<br>- Q10                                     | 2 S G 2 2 3 8 ( Y )<br>2 S G 3 4 2 1 ( Y )<br>2 S G 1 8 1 5 ( G R )<br>2 S G 1 8 1 5 ( G R )<br>NO USE          | TR. SI, NPN |                                    |  |
| C 1<br>C 2<br>C 3                                  | R92-1061-05<br>C90-3019-08<br>CQ92M1H102K<br>C91-2559-08                          | CAP. ELECTRO 1000 105 C 35 V CAP. MYLAR 1000 P 10% 50 V CAP. CERANIC 0.1 0.25 P 50 V   | Q 1 7<br>Q 1 1 A<br>Q 1 1 B                                 | DTA143EF  2SD1148(0) 2SD1148(0)   | TR. SI, NPN TR. SI, NPN   |                                    |  |
| C 4<br>C 5<br>C 6<br>C 7                           | CQ 9 2 M 1 H 4 7 2 K<br>CQ 9 2 M 1 H 1 0 3 K<br>NO USE<br>C9 0 - 3 0 2 0 - 0 8    | CAP. MYLAR 4700P 10% 50V<br>CAP. MYLAR 0.01 10% 50V<br>CAP. ELECTRO 100 105°C 25V  | R 1<br>R 2  | R B I 4 B B 2 C 1 2 2 J<br>R D I 4 B B 2 C 1 2 3 J  |   | 1.2K 5                             | % 1/6W   |
| C 8<br>C 9<br>C I 0<br>C I 1                       | CF93AN2ER22K<br>NO USE<br>C90-3021-08<br>CF93AN1JR22K                             | CAP. POLYESTER 0.22P 10% 250V  CAP. ELECTRO 2200 105°C 35V CAP. POLYESTER 0.22P 10% 63V  | R 2<br>R 3<br>R 4<br>R 5                                    | R D 1 4 D B 2 H 3 O 2 J<br>R D 1 4 B B 2 C 3 O 2 J<br>R D 1 4 B B 2 C 5 1 O J<br>R D 1 4 B B 2 C 1 O 2 J        | RES. CARBON<br>RES. CARBON  | 3 K 5<br>3 K 5<br>5 1 5<br>1 K 5   | % 1/6W<br>% 1/6W                               |
| C 2 2  | 091-2559-08   | CAP. CERAMIC 0.1 0.25P .50V  | R 6   | R D 1 4 B B 2 C 2 7 3 J<br>R N 1 4 B K 2 C 5 1 O 1 F  | RES. CARBON<br>RES. METAL FILM  | 27K 5<br>5.1K 1                    | % 1/6W<br>% 1/6W                               |
| C 2 6  | 090-3174-08   | CAP. ELECTRO 10 1% 50V   | R 8<br>R 9<br>R I 0   | R D 1 4 B B 2 C 2 O 2 J<br>R D 1 4 B B 2 C 1 O 2 J<br>R D 1 4 B B 2 C 5 1 1 J                                   | RES. CARBON   | 2 K 5<br>1 K 5<br>5 1 0 5          | % 1/6W   |
| C 2 7<br>C 2 8<br>C 2 9                            | NO USE<br>C90-3020-08<br>C91-2559-08  | CAP. ELECTRO 100 105°C 25V CAP. CERANIC 0.1 0.25P 50V  | R 1 1<br>R 1 2  | RD14BB2C513J<br>NO USE  | RES. CARBON   | 51 K 5                             | % 1/6W   |
| C 3 2  | CF93ANIJ1ROK  | CAP. POLYESTER 1P 10% 63V  | R I 3<br>R I 4<br>R I 5                                     | R D 1 4 B B 2 C 2 O 2 J<br>R D 1 4 B B 2 C 1 5 2 J<br>R D 1 4 B B 2 C 1 O 2 J                                   | RES. CARBON   | 1.5K 5                             | % 1/6W<br>% 1/6W<br>% 1/6W                     |
| C N 1<br>C N 2                                     | E40-7218-08<br>E40-7344-08  | PIN CONNECTOR 2P<br>PIN CONNECTOR 3P   | R 1 6<br>R 1 7  | RD14BB2C512J<br>NO USE  | RES. CARBON   | 5.1K 5                             | % 1/6W   |
| C N 3<br>C N 4<br>C N 5<br>C N 6<br>C N 7<br>C N 8 | NO USE<br>E40-7126-08<br>E40-7219-08<br>E40-7219-08<br>E40-7229-08<br>E40-7229-08 | PIN CONNECTOR 2P PIN CONNECTOR 3P PIN CONNECTOR 4P PIN CONNECTOR 4P  | R 1 8<br>R 1 9<br>R 2 0<br>R 2 1<br>R 2 2<br>R 2 3<br>R 2 4 | RD14BB2C103J<br>RD14BB2C103J<br>RD14BB2C102J<br>RN14BK2C3303F<br>RD14BB2C102J<br>RN14BK2C3101F<br>RN14BK2C3001F | RES. CARBON<br>RES. CARBON<br>RES. METAL FILM                           | 1 K 5<br>9,1 K 1                   | % 1/6W<br>% 1/6W<br>% 1/6W<br>% 1/6W<br>% 1/6W |
| C N 1 1<br>C N 1 2<br>C N 1 3                      | E40-7332-08<br>E40-7333-08<br>E40-7333-08   | PIN CONNECTOR 4P PIN CONNECTOR 2P PIN CONNECTOR 2P   | R 2 7<br>R 2 8<br>R 2 9                                     | R D F 4 B B 2 C 1 O 2 J<br>R D I 4 B B 2 C I O 3 J<br>R S I 4 G B 3 D I 5 2 J                                   | RES, CARBON   | 1 K 5                              | % 1/6W   |
| C N 1 8  | E40-7440-08   | CONNECTOR - PIN CONNECTOR 5P   | R 3 0   | R S 1 4 G B 3 A R 3 3 J   | RES. METAL FILM   | 0.33 5                             |  |
| C N 2 3<br>C N 2 4<br>C O 1                        | E40-3240-05<br>E40-7333-08<br>C90-3018-08   | PIN CONNECTOR 5P PIN CONNECTOR 2P  CAP. ELECTRO 1 105°C 50V  | R 3 4<br>R 3 5<br>R 3 6<br>R 3 7                            | R D I 4 B B 2 C I 2 2 J<br>R D I 4 B B 2 C I 2 3 J<br>R D I 4 B B 2 C 3 O 2 J<br>R D I 4 B B 2 C 5 I O J        | RES, CARBON<br>RES, CARBON<br>RES, CARBON                               | 1.2K 5<br>12K 5<br>3K 5<br>51 5    | % 1/6W<br>% 1/6W<br>% 1/6W                     |
| C O 1<br>C O 2<br>C O 3                            | C 9 1 - 1 3 2 3 - 0 8<br>N O U S E<br>C 9 0 - 3 0 4 6 - 0 8                       | CAP. CERAMIC 0.1 20% 250V  CAP. ELECTRO 100 105°C 50V  | R 3 8<br>R 3 9<br>R 4 0                                     | R D 1 4 B B 2 C 1 3 3 J<br>R D 1 4 B B 2 C 2 7 3 J<br>R N 1 4 B K 2 C 5 1 R O F                                 |   |                                    | % 1/6W<br>% 1/6W                               |
| D 1<br>D 2<br>D 3                                  | 1B 4 B 4 2<br>ER A 1 5 - 0 1<br>1 S S 2 7 0 A                                     | DIODE, STACK<br>DIODE<br>DIODE   | R 4 3<br>R 4 4<br>R 4 5                                     | R D I 4 B B 2 C I 0 3 J<br>R D I 4 B B 2 C I 0 I J<br>R D I 4 D B 2 H 2 O 2 J                                   | RES. CARBON   | 10K 5<br>100 5<br>2K 5             | % 1/6W   |
| D 4<br>D 5<br>D 6<br>D 7                           | 1 S S 2 7 0 A<br>1 S S 2 7 0 A<br>1 S S 2 7 0 A                                   | DIODE<br>DIODE<br>DIODE<br>DIODE   | R 6 7<br>R 7 4<br>R 7 5                                     | R S 1 4 G B 3 D R 1 5 J  R D 1 4 B B 2 C 1 0 2 J  R D 1 4 D B 2 H 2 0 2 J                                       |   | 0.15 5<br>1 K 5<br>2 K 5           | % 1/6W   |
| D 8<br>D 9<br>D 1 0                                | 1 S S 2 7 0 A<br>NO USE<br>D 1 0 X B 4 0<br>ER A I 5 - 0 1                        | DIODE, STACK<br>DIODE  | R 7 6<br>R 7 7<br>R 7 8<br>R 7 9                            | R D I 4 B B B 2 C I O 2 J<br>NO U S E<br>R D I 4 B B 2 C I O 2 J<br>R D I 4 D B 2 H I O 2 J                     | RES. CARBON RES. CARBON   |                                    | % 1/6W   |
| D 1 4<br>D 1 5<br>D 1 6                            | 1 S S 2 7 0 A<br>1 S S 2 7 0 A<br>1 S S 2 7 0 A                                   | DIODE<br>DIODE<br>DIODE  | R 8 5   | RD14DB2H101J  |   | 100 5                              |  |
| D 2 8  | 188270A   | DIODE  | R 8 8<br>R 8 9  | RDI4BB2C104J<br>NO USE  |   |                                    | 1/64   |
| D 3 3<br>D 3 4                                     | ERA 15 - 01<br>155270A  | DIODE<br>DIODE   | R 9 0<br>R 9 1<br>R 9 2<br>R 9 3                            | R D 1 4 B B 2 C 1 O 2 J<br>R D 1 4 B B 2 C 1 O 3 J<br>R D 1 4 B B 2 C 1 O 2 J<br>R D 1 4 B B 2 C 2 O 5 J        | RES. CARBON<br>RES. CARBON  | 1 K 5<br>1 O K 5<br>1 K 5<br>2 H 5 | 1/6W<br>1/6W<br>1/6W                           |
| D 3 7<br>D 3 8<br>D 3 9                            | ERA15 - 01<br>188270A<br>ERA15 - 01   | D I O D E<br>D I O D E   | R 9 4<br>R 9 5<br>R 9 6                                     | R D 1 4 B B 2 C 1 O O J<br>NO USE<br>R D 1 4 B B 2 C 9 1 2 J  | RES. CARBON   | 10 5<br>9.1K 5                     |  |
| D O 1  | 3 0 D 1   | DIODE  | R 3 2 A<br>R 3 2 B  | R S 1 4 G B 3 A R 3 3 J<br>R S 1 4 G B 3 A R 3 3 J  | RES. METAL FILM<br>RES. METAL FILM                                      |                                    | % 1 W  |
| 1 C 1<br>1 C 2<br>1 C 3                            | UPC151C<br>UPC151C<br>UPC1093J  | IC,OP AMP<br>IC,OP AMP<br>IC,VARIABLE SHUNT REGULATOR  | R O 1   | R N 1 4 B K 2 C 1 0 0 3 F   | RES. METAL FILM   |                                    | % 1/6W   |
| 109  | BA 1 7 8 L 1 2 A  | IC, TERMINAL FIXED VOLTAGE REG.  | R Y 1<br>R Y 2<br>R Y 3                                     | S 7 6 - 0 6 0 4 - 0 8<br>S 7 6 - 0 6 0 4 - 0 8<br>S 7 6 - 0 6 0 4 - 0 8   | RELAY<br>RELAY<br>RELAY   |                                    |  |
| LED1<br>LED2<br>LED0<br>LED01                      | L N 2 2 2 R P<br>E N 3 2 2 G P<br>L N 2 2 2 R P<br>L N 2 2 2 R P                  | LED: RED<br>1.ED; GREEN<br>LED: RED<br>LED: RED  | RY4<br>SW1<br>SW2   | \$76-0634-06<br>\$76+0630-08<br>\$68-0631-05<br>\$31-1512-08  | RELAY  OUTPUT SW  MASTER/SLAVE SWI                                      | тсн                                |  |
| Q 1<br>Q 2<br>Q 3                                  | 2SC1815 (GR)<br>2SC1815 (GR)<br>2SC1815 (GR)                                      | TR. SI, NPM TR. SI, NPM TR. SI, NPM  | V R I<br>V R 2<br>V R 3                                     | R 1 2 - 1 5 6 5 - 0 8<br>R 1 2 - 5 5 4 7 - 0 8<br>R 1 2 - 0 5 9 7 - 0 8   | RES. SEMI FIXED RES. SEMI FIXED RES. SEMI FIXED                         | 2 K B<br>1 0 0 K B                 |  |

H Z S 6 A

#### PR18-5A

### Y86-1870-00

#### NAME & DESCRIPTION COVER FRONT PANEL REF. NO PARTS NO A 0 I - 1 2 3 8 - 0 8 A 6 3 - 0 I 1 4 - 0 8 METER; VOLT KETER; CURRENT B 3 1 - 0 7 5 7 - 0 8 B 3 1 - 0 7 5 8 - 0 8 METER: CURRENT SERIAL NO. PLATE MASTER/SLAVE LABEL FUSE RATING LABEL RATING: AC120 V 50/60HZ 165W RATING: AC120 V 50/60HZ 165W RATING: AC220 V 50/60HZ 165W RATING: AC240 V 50/60HZ 165W RATING: AC240 V 50/60HZ 165W RATING: AC210 V 60HZ 165W INSTRUCTION MANUAL: JAPANESE INSTRUCTION MANUAL: ENGLISH TERMINAL. RED B 4 0 - 2 7 3 7 - 2 4 B 4 2 - 3 7 3 1 - 0 8 B 4 2 - 3 7 3 8 - 0 8 B 4 2 - 6 0 5 5 - 0 8 B 4 2 - 6 0 5 6 - 0 8 B 4 2 - 6 0 5 7 - 0 8 B 4 2 - 6 0 5 8 - 0 8 B 4 2 - 6 0 5 9 - 0 8 B 6 3 - 0 1 7 3 - 0 0 B 6 3 - 0 1 7 4 - 0 0 E 2 1 - 0 6 7 1 - 0 3 E 2 1 - 0 6 7 1 - 0 3 E 2 1 - 0 6 7 2 - 0 3 TERMINAL, RED TERMINAL, BLACK TERMINAL, WHITE SHORTING BAR E 29-0506-04 E 29-0542-08 E 30-0027-35 LUG; M3 UL/CSA JIS SAA CEE BS POWER CORD POWER CORD POWER CORD POWER CORD E 3 0 - 0 0 2 7 - 3 5 E 3 0 - 0 5 4 5 - 0 5 E 3 0 - 0 5 7 1 - 1 5 E 3 0 - 1 8 1 5 - 0 5 E 3 0 - 1 8 6 7 - 0 5 HEAT SINK F01-0886-08 F 0 5 - 3 0 2 2 - 0 5 F 2 9 - 0 5 1 7 - 0 8 FUSE(6X32NN) 3A/2: INSULATOR; FOR Q6/Q11 INSULATOR; FOR Q11A/Q11B/Q11C FUSE(5X20MM) 3A/250V FUSE(6X30MM) 5A/125V F 2 9 - 0 5 1 8 - 0 8 F 5 0 - 0 0 0 4 - 0 8 F 5 1 - 0 0 1 0 - 0 8 H 1 0 - 2 8 5 6 - 0 8 H 1 0 - 2 8 5 7 - 0 8 FUSE (6X30 MM) 5A/125V FOAMED STYRENE PAD (FRONT) FOAMED STYRENE PAD (REAR) II 2 0 - 1 7 3 4 - 0 8 II 5 3 - 0 1 1 3 - 0 8 VINYL COVER CARTON BOX CARTON BOX FOOT CLAMPER: FOR 2-CORE AC CORD CLAMPER: FOR 3-CORE AC CORD BRACKET: FOR AC CORD BUSHING VOLUME SPACER: FOR VRO1 BUSHING: FOR 2-CORE AC CORD BUSHING: FOR 3-CORE AC CORD J 0 2 - 0 5 2 9 - 0 8 J 1 9 - 1 6 7 1 - 0 8 J 1 9 - 1 6 7 2 - 0 8 J 2 | - 4 7 2 0 - 0 8 J 2 | - 4 7 5 8 - 0 8 130-0635-08 J 42-0083-05 J 42-0085-05 K 0 1 - 0 4 1 7 - 0 5 K 2 1 - 0 9 0 7 - 1 4 K 2 1 - 0 9 1 1 - 0 4 II A N D L. E K N O B KNOB; FINE/CURRENT KNOB; FINE/CURRENT KNOB, OUTPUT PUSH BUTTON, ORANGE; POWER POWER TRANSFORMER SCREW, SEMS PAN IID M3X6 SCREW, SEMS BINDING TAPTITE 3X6 SCREW, SEMS PAN IID M3X10 SCREW, SEMS TAPTITE 3X10 FLANGE NUT M3 SCREW, BINDING TAPTITE 3X6 SCREW, BINDING TAPTITE 3X12 PUSII SWITCH; POWER K 2 4 - 3 0 0 6 - 0 4 K 2 7 - 0 5 0 9 - 0 4 I, 07-1518-08 N O 9-0718-05 N O 8 - 0 7 5 7 - 0 5 N O 9 - 0 7 7 6 - 0 5 N O 9 - 0 7 7 7 - 0 5 N O 9-0789-05 NO9-0797-08 N 1 4-0404-04 N 8 9 - 3 0 0 6 - 4 1 N 8 9 - 3 0 1 2 - 4 1 PUSH SWITCH; POWER W O 2 - 2 2 6 9 - 0 8 VOLUME VROI R 2 9 - 3 5 0 3 - 0 8 10 K V R O 3 R 29-3504-08 VOI. UNE 1 0 K

#### PR18-5A AMP UNIT

|   |  | /02-2269-08   |
|---|--|---|
| REF, N  | O PARTS NO<br>E2!-0674-08<br>E40-7141-08<br>E40-7142-08<br>J13-0518-08<br>J73-0326-08  | NAME & DESCRIPTION EXTERNAL OUTPUT TERMINAL PIN CONNECTOR 2P(LINE VOLTAGE) PIN CONNECTOR 1P(LINE VOLTAGE) FUSE CLIP:FOR 6X30MM PCB (UNMOUNTED)  |
| C 1<br>C 2<br>C 3<br>C 4<br>C 5<br>C 6        | R92-0150-05<br>R92-1061-05<br>C90-3019-08<br>C992-N1H102-K<br>C91-2559-08<br>CQ92-N1H172-K<br>CQ92-N1H103-K<br>NO USE            | JUMPING RES. ZERO OHM (10 MM) JUMPING RES. ZERO OHM (5 MM) CAP. ELECTRO 1000 105 C 35 V CAP. MYLAR 1000P 10% 50 V CAP. CERANIC 0.1 0.25 P 50 V CAP. MYLAR 4700P 10% 50 V CAP. MYLAR 0.01 10% 50 V |
| C 7<br>C 8<br>C 9<br>C 1 0                    | C 9 0 - 3 0 2 0 - 0 8<br>C F 9 3 A N 2 E R 2 2 K<br>NO U S E<br>C 9 0 - 3 0 2 4 - 0 8  | CAP. ELECTRO 100 105 C 25 V CAP. POLYESTER 0.22P 10 % 250  CAP. ELECTRO 3300 105 C 35 V   |
| C 1 1   | CF93AN1JR22K<br>C91-2559-08  | CAP. POLYESTER 0.22P 10% 63V  CAP. CERANIC 0.1 0.25P 50V  |
| C 2 6   | C 9 0 - 3 1 7 4 - 0 8  | CAP. ELECTRO 10 1% 50V  |
| C 2 7<br>C 2 8<br>C 2 9                       | NO USE<br>C90-3020-08<br>C91-2559-08   | CAP. ELECTRO 100 105°C 25V CAP. CERAMIC 0.1 0.25P 50V   |
| C 3 2   | CF93AN1J1R0K   | CAP. POLYESTER IP 10% 63V   |
| C N 1<br>C N 2<br>C N 3                       | E 4 0 - 7 2 I 8 - 0 8<br>E 4 0 - 7 3 4 4 - 0 8<br>NO USE   | PIN CONNECTOR 2P<br>PIN CONNECTOR 3P  |
| C N 4<br>C N 5<br>C N 6<br>C N 7<br>C N 8     | E 40 - 7126 - 08<br>E 40 - 7219 - 08<br>E 40 - 7219 - 08<br>E 40 - 7219 - 08<br>E 40 - 7229 - 08<br>E 40 - 7229 - 08             | PIN CONNECTOR 2P PIN CONNECTOR 3P PIN CONNECTOR 3P PIN CONNECTOR 4P PIN CONNECTOR 4P  |
| C N 1 1<br>C N 1 2<br>C N 1 3                 | E 4 0 - 7 3 3 2 - 0 8<br>E 4 0 - 7 3 3 3 - 0 8<br>E 4 0 - 7 3 3 3 - 0 8  | PIN CONNECTOR 4P<br>PIN CONNECTOR 2P<br>PIN CONNECTOR 2P  |
| C N 1 8                                       | E 40 - 7440 + 08   | CONNECTOR   |
| C N 2 3<br>C N 2 4                            | E 4 0 - 3 2 4 0 - 0 5<br>E 4 0 - 7 3 3 3 - 0 8   | PIN CONNECTOR 5P<br>PIN CONNECTOR 2P  |
| C 0 1   | C 9 0 - 3 0 1 8 - 0 8  | CAP. ELECTRO 1 105°C 5 0 V  |
| C 0 1<br>C 0 2<br>C 0 3                       | C 9 1 - 1 3 2 3 - 0 8<br>NO USE<br>C 9 0 - 3 0 4 6 - 0 8   | CAP. CERANIC 0.1 20% 250V<br>CAP. ELECTRO 100 105°C 50V   |
| D 1<br>D 2<br>D 3<br>D 4<br>D 5<br>D 6<br>D 7 | 1 B 4 B 4 2<br>E R A 1 5 - 0 1<br>1 S S 2 7 0 A<br>1 S S 2 7 0 A<br>N O U S E | DIODE, STACK DIODE DIODE DIODE DIODE DIODE DIODE DIODE  |
| D 9<br>D 1 0                                  | D 1 5 X B 4 0<br>E R A 1 5 - 0 1   | DIODE, STACK<br>DIODE   |
| D 1 4<br>D 1 5<br>D 1 6                       | 1 S S 2 7 0 A<br>1 S S 2 7 0 A<br>1 S S 2 7 0 A  | DIODE<br>DIODE<br>DIODE   |
| D 2 8   | 1 S S 2 7 0 A  | DIODE   |
| D 3 3<br>D 3 4                                | ERA15-01<br>1SS270A  | DIODE   |
| D 3 7<br>D 3 8<br>D 3 9                       | E R A 1 5 - 0 1<br>1 S S 2 7 0 A<br>E R A 1 5 - 0 1  | D 1 0 D E<br>D 1 0 D E<br>D 1 0 D E   |
| 001   | 3001   | DIODE   |
| I C 1<br>I C 2<br>I C 3                       | UPC151C<br>UPC151C<br>UPC1093J   | IC,OP AMP<br>IC,OP AMP<br>IC,VARIABLE SHUNT REGULATOR   |
| I C 9   | II A 1 7 8 L 1 2 A   | IC, TERMINAL FIXED VOLTAGE &C.  |
| . E D 2<br>. E D O                            | L N 3 2 2 G P<br>I. N 2 2 2 R P<br>I. N 2 2 2 R P<br>L N 2 2 2 R P   | LED; GREEN<br>LED; RED<br>LED; RED<br>LED; RED  |
| 2   | 2 S C 1 8 1 5 (G R)<br>2 S C 1 8 1 5 (G R)<br>2 S C 1 8 1 5 (G R)  | TR. SI, NPN TR. SI, NPN TR. SI, NPN   |

| W 0 2 - 2 2 6<br>R E F . N 0<br>Q 4<br>Q 5<br>Q 6<br>Q 7<br>Q 8<br>Q 9<br>Q 1 0<br>Q 1 1 | PARTS NO<br>2SC1815 (GR)<br>2SC1815 (GR)<br>2SD1148 (O)<br>2SC2238 (Y)<br>2SC3421 (Y)<br>2SC3421 (Y)<br>2SC1815 (GR)<br>2SC1816 (GR)  | TR. TR. TR. TR. TR. TR. TR.             | SI, NI<br>SI, NI<br>SI, NI<br>SI, NI<br>SI, NI<br>SI, NI          | PN<br>PN<br>PN<br>PN<br>PN<br>PN<br>PN                     | N 10 1 T יו 1  |  |
|--|---|---|---|--|--|--|
| Q 1 5<br>Q 1 6<br>Q 1 7  | 2 S C 1 8 1 5 (G R )<br>NO USE<br>DT A 1 4 3 E F  | TR.<br>TR.                              | SI, NI  |  |  |  |
| Q 1 1 A<br>Q 1.1 B<br>Q 1 1 C  | 2 S D 1 1 4 8 ( 0 )<br>2 S D 1 1 4 8 ( 0 )<br>2 S D 1 1 4 8 ( 0 )   | T R .<br>T R .<br>T R .                 | SI, NE<br>SI, NE<br>SI, NE  | N  |  |  |
| R I<br>R 2   | RD: 4BB2C122J<br>RD: 4BB2C123J  | RES.<br>RES.                            | CARBO<br>CARBO  |  | 1.2K<br>12K  | 5% 1/6W<br>5% 1/6W   |
| R 2<br>R 3<br>R 4<br>R 5<br>R 6<br>R 7<br>R 8<br>R 9<br>R 1 0<br>R ! 1                   | RD14DB2U302J RD14BB2C302J RD14BB2C510J RD14BB2C510J RD14BB2C510J RD14BB2C5101F RD14BB2C5101F RD14BB2C502J RD14BB2C501J RD14BB2C503J RD14BB2C503J  | RES. RES. RES. RES. RES. RES. RES. RES. | CARBO CARBO CARBO CARBO CARBO METAL CARBO CARBO CARBO CARBO CARBO | ) N<br>) N<br>) N<br>) N<br>) N<br>. F ! L X<br>! N<br>! N | 3 K<br>3 K<br>5 1<br>1 K<br>2 7 K<br>5 . 1 K<br>2 . K<br>1 K<br>1 0 0<br>5 1 K | 5% 1/6W<br>5% 1/6W<br>5% 1/6W<br>5% 1/6W<br>1 1/6W<br>1 1/6W<br>5% 1/6W<br>5% 1/6W<br>5% 1/6W<br>5% 1/6W |
| R 1 3<br>R 1 4<br>R 1 5<br>R 1 6<br>R 1 7  | R D I 4 B B 2 C 2 O 2 J<br>R D I 4 B B 2 C 1 5 2 J<br>R D I 4 B B 2 C 1 O 2 J<br>R D I 4 B B 2 C 5 I 2 J<br>N O U S E   | RES.<br>RES.<br>RES.<br>RES.            | CARBO<br>CARBO<br>CARBO<br>CARBO                                  | N<br>N   | 2 K<br>1 . 5 K<br>1 K<br>5 . 1 K   | 5% 1/6W<br>5% 1/6W<br>5% 1/6W<br>5% 1/6W   |
| R 1 8<br>R 1 9<br>R 2 0<br>R 2 1<br>R 2 2<br>R 2 3<br>R 2 4                              | R D I 4 B B 2 C 5 1 3 J<br>R D I 4 B B 2 C 1 0 3 J<br>R D I 4 B B 2 C 1 0 2 J<br>R N I 4 B K 2 C 3 3 0 3 F<br>R D I 4 B B 2 C 1 0 2 J<br>R N I 4 B K 2 C 9 I 0 1 F<br>R N I 4 B K 2 C 3 0 0 1 F | RES.<br>RES.<br>RES.<br>RES.<br>RES.    | CARBO CARBO CARBO METAL CARBO METAL METAL                         | N<br>N<br>FILM<br>N  | 5 1 K<br>1 0 K<br>1 K<br>3 3 0 K<br>1 K<br>9 . 1 K<br>3 K                      | 5% 1/6W<br>5% 1/6W<br>5% 1/6W<br>1% 1/6W<br>5% 1/6W<br>1% 1/6W<br>1% 1/6W                                |
| R 2 7<br>R 2 8<br>R 2 9<br>R 3 0<br>R 3 1  | R D 1 4 B B 2 C 1 0 2 J<br>R D 1 4 B B 2 C 1 0 3 J<br>R S 1 4 G B 3 D 1 5 2 J<br>R S 1 4 G B 3 A R 3 3 J<br>NO USE  | RES.<br>RES.<br>RES.                    | CARBO<br>CARBO<br>METAL<br>METAL                                  | N<br>FILM<br>FILM  | 1 K<br>1 0 K<br>1 . 5 K<br>0 . 3 3   | 5% 1/6W<br>5% 1/6W<br>5% 2W<br>5% 1W   |
| R 3 2<br>R 3 3<br>R 3 4<br>R 3 5   | R S 1 4 G B 3 A R 3 3 J<br>NO USE<br>R D 1 4 B B 2 C 1 2 2 J<br>R D 1 4 B B 2 C 1 2 3 J   | RES.<br>RES.<br>RES.                    | CARBOI<br>CARBOI  |  | 0.33<br>1.2K<br>12K  | 5% 1 / 6 W<br>5% 1 / 6 W   |
| R 3 6<br>R 3 7<br>R 3 8<br>R 3 9<br>R 4 0  | R D I 4 B B 2 C 3 O 2 J<br>R D I 4 B B 2 C 5 I O J<br>R D I 4 B B 2 C I 3 3 J<br>R D I 4 B B 2 C 2 7 3 J<br>R N I 4 B K 2 C 5 I R O F   | RES.<br>RES.<br>RES.<br>RES.            | CARBON<br>CARBON<br>CARBON<br>METAL                               | N<br>N<br>N  | 3 K<br>5 1<br>1 3 K<br>2 7 K<br>5 1 . 0  | 5% 1/6W<br>5% 1/6W<br>5% 1/6W<br>5% 1/6W<br>1% 1/6W  |
| R 4 3<br>R 4 4<br>R 4 5  | R D 1 4 B B 2 C 1 O 3 J<br>R D 1 4 B B 2 C 1 O 1 J<br>R D 1 4 D B 2 H 2 O 2 J   | RES.<br>RES.<br>RES.                    | CARBO!<br>CARBO!<br>CARBO!  | N  | 1 0 K<br>1 0 0<br>2 K  | 5% 1/6W<br>5% 1/6W<br>5% 1/2W  |
| R 6 7  | R S I 4 G B 3 D R 1 2 J   | RES.                                    | X E T A L   | FILM   | 0.12   | 5 % 2 W  |
| R 7 4<br>R 7 5<br>R 7 6<br>R 7 7   | R D1 4 B B 2 C 1 0 2 J<br>R D1 4 D B 2 H 2 O 2 J<br>R D1 4 B B 2 C 1 O 2 J<br>NO USE  | RES.<br>RES.<br>RES.                    | CARBON<br>CARBON<br>CARBON  | N  | 1 K<br>2 K<br>1 K  | 5% 1/6W<br>5% 1/2W<br>5% 1/6W  |
| R 7 8<br>R 7 9   | R D I 4 B B 2 C 1 O 2 J<br>R D I 4 D B 2 H 1 O 2 J  | RES.<br>RES.                            | CARBON<br>CARBON  |  | 1 K<br>1 K   | 5% 1/6W<br>5% 1/2W   |
| R 8 5  | R D1 4 D B 2 H 1 O 1 J  | RES.                                    | CARBON  | 4  | 1 0 0  | 5 % 1 / 2 W  |
| R 8 8<br>R 8 9   | RDI4BB2C104J<br>NO USE  | RES.                                    | CARBON  |  |  | 5% 1/6W  |
| R 9 0<br>R 9 1<br>R 9 2<br>R 9 3<br>R 9 4<br>R 9 5                                       | R D1 4 B B 2 C 1 0 2 J<br>R D1 4 B B 2 C 1 0 3 J<br>R D1 4 B B 2 C 1 0 2 J<br>R D1 4 B B 2 C 2 0 5 J<br>R D1 4 B B 2 C 1 0 0 J<br>NO USE  | RES.<br>RES.<br>RES.<br>RES.            | CARBON<br>CARBON<br>CARBON<br>CARBON                              | i<br>!<br>!  | 1 0 K<br>1 K<br>2 H  | 5% 1/6W<br>5% 1/6W<br>5% 1/6W<br>5% 1/6W<br>5% 1/6W  |
| R 9 6  | R D   4 B B 2 C 9 1 2 J   | RES.                                    | CARBON  |  |  | 5% 1/6W  |
| R 3 2 A<br>R 3 2 B<br>R 3 2 C  | R SI 4 G B 3 A R 3 3 J<br>R SI 4 G B 3 A R 3 3 J<br>R SI 4 G B 3 A R 3 3 J  | RES.<br>RES.<br>RES.                    | METAL<br>METAL<br>METAL   | FILM<br>FILM<br>FILM                                       | 0.33   | 5% 1W<br>5% 1W<br>5% 1W  |
| R O 1  | R N1 4 B K 2 C 4 0 0 3 F  | RES.                                    | METAL   | FILK   | 100K   | 1 % 1 / 6 W  |
| R Y 1<br>R Y 2<br>R Y 3<br>R Y 4   | S 76 - 0 6 0 4 - 0 8<br>S 76 - 0 6 0 4 - 0 8<br>S 76 - 0 6 0 4 - 0 8<br>S 76 - 0 6 0 4 - 0 8<br>S 76 - 0 6 3 0 - 0 8  | RELAY<br>RELAY<br>RELAY<br>RELAY        |   |  |  |  |

| REF. NO | PARTS NO              | NAME & DESCRI    | NOITS  |
|---------|-----------------------|------------------|--------|
| S W 1   | S 6 8 - 0 6 3 1 - 0 5 | OUTPUT SW        | TCH    |
| S W 2   | S 3 1 - 1 5 1 2 - 0 8 | MASTER/SLAVE SWI |        |
| V R 1   | R 1 2 - 1 5 6 5 - 0 8 | RES. SEMI FIXED  | 100KB  |
| V R 2   | R 1 2 - 5.5 4 7 - 0 8 | RES. SEMI FIXED  |        |
| V R 3   | R 1 2 - 0 5 9 7 - 0 8 | RES. SEMI FIXED  |        |
| Z D 1   | 11 Z S G A            | DIODE, ZENER     | 5.75 V |

# **PARTS LIST**

|                               |   | Y86-1880-00  |
|-------------------------------|---|--|
| REF. NO                       | PARTS NO<br>A01-1236-08<br>A63-0115-08<br>B31-0756-08<br>B31-0759-08<br>B40-2737-24<br>B42-3731-08<br>B42-3740-08   | NAME & DESCRIPTION COVER FRONT PANEL METER: CURRENT METER: VOLT SERIAL NO. PLATE MASTER/SLAVE LABEL FUSE RATING LABEL  |
|                               | 842-6025-08 842-6025-08 842-6027-08 842-6027-08 842-6028-08 842-6028-08 842-6029-08 863-0173-00 821-0670-03 821-0672-03 821-0672-03   | RATING: AC100V 50/60HZ 73W RATING: AC120V 50/60HZ 73W RATING: AC220V 50/60HZ 73W RATING: AC220V 50/60HZ 73W RATING: AC240V 50/60HZ 73W RATING: AC120V 60HZ 73W INSTRUCTION MANUAL; JAPANESE INSTRUCTION MANUAL; ENGLISH TERMINAL, RED TERMINAL, BLACK TERMINAL, WHITE SHORTING BAR LUG: M3 |
|                               | E 3 0 - 0 0 2 7 - 3 5<br>E 3 0 - 0 5 4 5 - 0 5<br>E 3 0 - 0 5 7 1 - 1 5<br>E 3 0 - 1 8 1 5 - 0 5<br>E 3 0 - 1 8 6 7 - 0 5   | UL/CSA POWER CORD JIS POWER CORD SAA POWER CORD CEE POWER CORD BS POWER CORD   |
|                               | F01-0884-08<br>F05-1521-08<br>F29-0517-08<br>F50-0003-08<br>F51-0008-08<br>H10-2853-08<br>H10-2855-08<br>H10-2855-08<br>H10-2855-08<br>H10-2855-08<br>H20-1734-08<br>H20-1734-08  |  |
|                               | $\begin{array}{c} J19-1671-08 \\ J19-1672-08 \\ J21-4720-08 \\ J21-475-08 \\ J21-475-08 \\ J30-0635-08 \\ J42-0083-05 \\ J42-0085-05 \\ K21-0907-14 \end{array}$  | CLAMPER; FOR 2-CORE AC CORD CLAMPER; FOR 3-CORE AC CORD BRACKET; FOR P.C.B BRACKET; FOR AC CORD BUSHING VOLUME SPACER; FOR VRO1 BUSHING; FOR 2-CORE AC CORD BUSHING; FOR 3-CORE AC CORD KNOB   |
|                               | $ \begin{array}{c} \text{K 2 1} - 0.9 & \text{I} & \text{I} - 0.4 \\ \text{K 2 2} - 3.0 & \text{O} & \text{G} - 0.4 \\ \text{K 2 2} - 0.5 & \text{O} & \text{9} - 0.4 \\ \text{L 0.7} - 1.5 & \text{I} & \text{9} - 0.8 \\ \text{N O.9} - 0.7 & \text{I} & \text{8} - 0.5 \\ \text{N O.9} - 0.7 & \text{2} & \text{0} - 0.5 \\ \text{N O.9} - 0.7 & \text{2} & \text{0} - 0.5 \\ \text{N O.9} - 0.7 & \text{5} & \text{7} - 0.5 \\ \text{N O.9} - 0.7 & \text{8} & \text{9} - 0.5 \\ \text{N O.9} - 0.7 & \text{9} & \text{7} & \text{9} & \text{7} & \text{9} \\ \text{N O.9} - 0.7 & \text{9} & \text{0} & \text{0} & \text{0} \\ \text{N O.9} - 0.7 & \text{9} & \text{0} & \text{0} & \text{0} \\ \text{N O.9} - 0.7 & \text{9} & \text{0} & \text{0} & \text{0} \\ \text{N O.9} - 0.7 & \text{0} & \text{0} & \text{0} & \text{0} \\ \text{N O.9} - 0.7 & \text{0} & \text{0} & \text{0} \\ \text{N O.9} - 0.7 & \text{0} & \text{0} & \text{0} \\ \text{N O.9} - 0.7 & \text{0} & \text{0} & \text{0} \\ \text{N O.9} - 0.7 & \text{0} & \text{0} & \text{0} \\ \text{N O.9} - 0.7 & \text{0} & \text{0} & \text{0} \\ \text{N O.9} - 0.7 & \text{0} & \text{0} & \text{0} \\ \text{N O.9} - 0.7 & \text{0} & \text{0} & \text{0} \\ \text{N O.9} - 0.7 & \text{0} & \text{0} & \text{0} \\ \text{N O.9} - 0.7 & \text{0} & \text{0} \\ \text{N O.9} - 0.7 & \text{0} & \text{0} \\ \text{N O.9} - 0.7 & \text{0} & \text{0} \\ \text{N O.9} - 0.7 & \text{0} & \text{0} \\ \text{N O.9} - 0.7 & \text{0} & \text{0} \\ \text{N O.9} - 0.7 & \text{0} & \text{0} \\ \text{N O.9} - 0.7 & \text{0} & \text{0} \\ \text{N O.9} - 0.7 & \text{0} & \text{0} \\ \text{N O.9} - 0.7 & \text{0} & \text{0} \\ \text{N O.9} - 0.7 & \text{0} & \text{0} \\ \text{N O.9} - 0.7 & \text{0} \\ \text{0} - 0.7 $ | KNOB: FINE / CURRENT KNOB. OUTPUT PUSH BUTTON, ORANGE: POWER POWER TRANSFORMER SCREW, SEMS PAN HD M3X6 SCREW, SEMS PAN HD M3X10 SCREW, SEMS BINDING TAPTITE 3X SCREW, SEMS TAPTITE 3X10 FLANGE NUT M3  |
| V R O 1<br>V R O 2<br>V R O 3 | $\begin{array}{c} \text{N 8 9 - 3 0 0 6 - 4 1} \\ \text{N 8 9 - 3 0 1 0 - 4 1} \\ \text{S 4 0 - 2 5 3 3 - 0 8} \\ \text{M 0 2 - 2 5 3 3 - 0 8} \\ \text{R 2 9 - 3 5 0 3 - 0 8} \\ \text{R 3 9 - 0 8 0 0 - 0 8} \\ \text{R 2 9 - 3 5 0 4 - 0 8} \end{array}$   | SCREW, BINDING TAPTITE 3XG SCREW, BINDING TAPTITE 3X10 PUSH SWITCH; POWER AMP UNIT VOLUME 10K VOLUME 1K VOLUME 10K   |

PR36-1.2A

| PR36-1.2A AMP UNIT W02-2270-08 |   |   |  |  |
|--------------------------------|---|---|--|--|
| REF. NO                        | PARTS NO<br>E21-0674-08<br>E40-4142-08                                  | NAME & DESCRIPTION<br>EXTERNAL OUTPUT TERMINAL<br>PIN CONNECTOR IP          |  |  |
|                                | E 4 0 - 7 1 4 1 - 0 8<br>J 1 3 - 0 5 1 8 - 0 8                          | PIN CONNECTOR 2P(LINE VOLTAGE) FUSE CLIP; FOR 6X30MM                        |  |  |
|                                | J 7 3 - 0 3 2 6 - 0 8<br>R 9 2 - 0 1 5 0 - 0 5<br>R 9 2 - 1 0 6 1 - 0 5 | PCB (UNMOUNTED) JUMPING RES. ZERO OHM (10MM) JUMPING RES. ZERO OHM (5MM)    |  |  |
| C 1<br>C 2                     | C 9 0 - 3 0 2 3 - 0 8<br>C Q 9 2 M 1 H 1 0 2 K                          | CAP. ELECTRO 470 105°C 35V CAP. MYLAR 1000P 10% 50V                         |  |  |
| C 3<br>C 4<br>C 5              | C 9 1 - 2 5 5 9 - 0 8<br>C Q 9 2 M 1 H 4 7 2 K<br>C Q 9 2 K 1 H 1 0 3 K | CAP. CERAMIC 0.1 0.25P 50V CAP. MYLAR 4700P 10% 50V CAP. MYLAR 0.01 10% 50V |  |  |
| C 6<br>C 7                     | NO USE<br>C90-3020-08   | CAP. ELECTRO 100 105°C 25V  |  |  |
| C 8<br>C 9                     | CF93AN2ER22K<br>NO USE  | CAP. POLYESTER 0.22P 10% 250  CAP. ELECTRO 1000 105°C 63V                   |  |  |
| C 1 0<br>C 1 1                 | C 9 0 - 3 0 2 5 - 0 8<br>C F 9 3 A N 1 J R 2 2 K                        | CAP. ELECTRO 1000 105°C 63V<br>CAP. POLYESTER 0.22P 10% 63V                 |  |  |
| C 2 2                          | C 9 1 - 2 5 5 9 - 0 8   | CAP. CERANIC 0.1 0.25P 50V  |  |  |
| C 2 6<br>C 2 7                 | C 9 0 - 3 1 7 4 - 0 8<br>N 0 U S E<br>C 9 0 - 3 0 2 0 - 0 8             | CAP. ELECTRO 10 1% 50V  CAP. ELECTRO 100 105°C 25V                          |  |  |
| C 2 8<br>C 2 9                 | C 9 1 - 2 5 5 9 - 0 8   | CAP. ELECTRO 100 105°C 25V<br>CAP. CERAMIC 0.1 0.25P 50V                    |  |  |
| C 3 2                          | C F 9 3 A N 1 J 1 R 0 K   | CAP. POLYESTER 1P 10% 63V   |  |  |
| C N 1<br>C N 2<br>C N 3        | E 4 0 - 7 2 1 8 - 0 8<br>E 4 0 - 7 3 4 4 - 0 8<br>NO USE                | PIN CONNECTOR 2P<br>PIN CONNECTOR 3P  |  |  |
| C N 4<br>C N 5                 | F. 40 - 7126 - 08<br>F. 40 - 7219 - 08                                  | PIN CONNECTOR 2P<br>PIN CONNECTOR 3P  |  |  |
| C N 6<br>C N 7                 | N () U S E<br>E 4 0 - 7 2 2 9 - 0 8                                     | PIN CONNECTOR 4P  |  |  |
| C N 1 1<br>C N 1 2             | E 4 0 - 7 3 3 2 - 0 8<br>E 4 0 - 7 3 3 3 - 0 8                          | PIN CONNECTOR 4P<br>PIN CONNECTOR 2P  |  |  |
| C N 1 3                        | E 4 0 - 7 3 3 3 - 0 8   | PIN CONNECTOR 2P  |  |  |
| C N 1 8                        | E 4 0 - 7 4 4 0 - 0 8<br>E 4 0 - 3 2 4 0 - 0 5                          | CONNECTOR PIN CONNECTOR 5P  |  |  |
| C N 2 4                        | E 4 0 - 7 3 3 3 - 0 8   | PIN CONNECTOR 2P  |  |  |
| 001                            | C 9 0 - 3 0 1 8 - 0 8   | CAP. ELECTRO 1 105°C 50V  |  |  |
| C 0 1<br>C 0 2<br>C 0 3        | C 9 1 - 1 3 2 3 - 0 8<br>NO USE<br>C 9 0 - 3 0 4 6 - 0 8                | CAP. CERAMIC 0.1 20% 250° CAP. ELECTRO 100 105° C 50V                       |  |  |
| D 1<br>D 2                     | 1 B 4 B 4 2<br>E R A 1 5 - 0 1  | DIODE, STACK<br>DIODE   |  |  |
| D 3<br>D 4<br>D 5              | 1 S S 2 7 0 A<br>1 S S 2 7 0 A<br>1 S S 2 7 0 A                         | D 1 0 D E<br>D 1 0 D E<br>D 1 0 D E   |  |  |
| D 6<br>D 7                     | 1 S S 2 7 0 A<br>1 S S 2 7 0 A  | DIODE<br>DIODE  |  |  |
| D 8<br>D 9                     | NO USE<br>D3SB60  | DIODE, STACK  |  |  |
| D 1 0<br>D 1 4                 | ERA 15-01   | DIODE   |  |  |
| D 1 5<br>D 1 6                 | 1 S S 2 7 0 A<br>1 S S 2 7 0 A  | DIODE<br>DIODE  |  |  |
| 0 2 8                          | 1 S S 2 7 0 A   | DIODE   |  |  |
| D 3 3<br>D 3 4                 | E R A 1 5 - 0 1<br>1 S S 2 7 0 A  | D 1 O D E   |  |  |
| D 3 7<br>D 3 8<br>D 3 9        | E R A 1 5 - 0 1<br>1 S S 2 7 0 A<br>E R A 1 5 - 0 1                     | DIODE<br>DIODE  |  |  |
| D O 1                          | E R A 1 5 - 0 1   | DIODE   |  |  |
| I C 1<br>I C 2                 | UPC151C<br>UPC151C  | IC, OP AMP  |  |  |
| I C 3                          | UPC1093J  | IC, VARIABLE SHUNT REGULATOR  IC, TERMINAL FIXED VOLTAGE REG.               |  |  |
| LEDI                           | I. N 2 2 2 R P  | LED; RED  |  |  |
| LED2                           | I. N 3 2 2 G P  | LED; GREEN  |  |  |
| LEDO1                          | LN222RP<br>2SC1815 (GR)   | TR. SI, NPN   |  |  |

| REF. NO                 | PARTS NO  | NAME & DESCRIPTION   |
|-------------------------|---|--|
| Q 4<br>Q 5<br>Q 6       | 2 S C 1 8 1 5 ( G R )<br>2 S C 1 8 1 5 ( G R )<br>2 S D I I 4 8 ( O )           | TR. SI, NPN TR. SI, NPN TR. SI, NPN  |
| Q 7<br>Q 8              | 2 S C 2 2 3 8 ( Y )<br>2 S C 3 4 2 1 ( Y )                                      | TR. SI, NPN<br>TR. SI, NPN   |
| Q 9<br>Q 1 0<br>Q 1 1   | 2 S C 1 8 1 5 ( G R )<br>2 S C 1 8 1 5 ( G R )<br>2 S D I 1 4 8 ( 0 )           | TR. SI, NPN TR. SI, NPN TR. SI, NPN  |
| Q 1 5<br>Q 1 6<br>Q 1 7 | 2 S C 1 8 1 5 ( G R )<br>NO USE<br>D T A 1 4 3 E F                              | TR. SI, NPN TR. DIGITAL  |
| R 1<br>R 2              | R D 1 4 B B 2 C 1 2 2 J<br>R D 1 4 B B 2 C 1 2 3 J                              | RES. CARBON 1.2K 5% 1/6W<br>RES. CARBON 12K 5% 1/6W                          |
| K 2                     | R D 1 4 D B 2 H 3 O 2 J   | RES. CARBON 3K 5% 1/2W   |
| R 3<br>R 4<br>R 5       | R D I 4 B B 2 C 3 O 2 J<br>R D I 4 B B 2 C 5 I O J<br>R D I 4 B B 2 C I 2 3 J   | RES. CARBON 3K 5% 1/6W<br>RES. CARBON 51 5% 1/6W<br>RES. CARBON 12K 5% 1/6W  |
| R 6<br>R 7<br>R 8       | R D 1 4 B B 2 C 2 7 3 J<br>R N 1 4 B K 2 C 2 4 0 1 F<br>R D 1 4 B B 2 C 2 0 2 J | RES. CARBON 27K 5% 1/6W RES. METAL FILM 2.4K 1% 1/6W RES. CARBON 2K 5% 1/6W  |
| R 9<br>R 1 0<br>R 1 1   | R D I 4 B B 2 C I 0 2 J<br>R D I 4 B B 2 C I 0 3 J<br>R D I 4 B B 2 C 5 I 3 J   | RES. CARBON 1K 5% 1/6W RES. CARBON 51K 5% 1/6W RES. CARBON 51K 5% 1/6W       |
| R 1 2<br>R 1 3<br>R 1 4 | N() USE<br>RD14BB2C202J<br>RD14BB2C152J   | RES. CARBON 2K 5% 1/6W RES. CARBON 1.5K 5% 1/6W                              |
| R 1 5<br>R 1 6<br>R 1 7 | R D † 4 B B 2 C 1 0 2 J<br>R D 1 4 B B 2 C 5 1 2 J<br>N O U S E                 | RES. CARBON 1K 5% 1/6W<br>RES. CARBON 5.1K 5% 1/6W                           |
| R 1 8<br>R 1 9          | R D 1 4 B B 2 C 5 1 3 J<br>R D 1 4 B B 2 C 1 0 3 J                              | RES. CARBON 51K 5% 1/6W RES. CARBON 10K 5% 1/6W                              |
| R 2 0<br>R 2 1<br>R 2 2 | R D 1 4 B B 2 C 1 0 2 J<br>R N 1 4 B K 2 C 3 3 0 3 F<br>R D 1 4 B B 2 C 1 0 2 J | RES. CARBON 1K 5% 1/6W RES. METAL FILM 330K 1% 1/6W RES. CARBON 1K 5% 1/6W   |
| R 2 3<br>R 2 4          | R N 1 4 B K 2 C 9 1 O 1 F<br>R N 1 4 B K 2 C 3 O O 1 F                          | RES. METAL FILM 9.1K 1% 1/6W<br>RES. METAL FILM 3K 1% 1/6W                   |
| R 2 7<br>R 2 8          | R D 1 4 B B 2 C 1 0 2 J<br>R D 1 4 B B 2 C 1 0 3 J                              | RES. CARBON 1K 5% 1/6W RES. CARBON 10K 5% 1/6W RES. METAL FILM 3.9K 5% 2W    |
| R 2 9<br>R 3 0<br>R 3 1 | R S 1 4 G B 3 D 3 9 2 J<br>R S 1 4 G B 3 A R 4 7 J<br>N O U S E                 | RES. METAL FILM 0.47 5% 1W   |
| R 3 2<br>R 3 3<br>R 3 4 | R S 1 4 G B 3 A R 4 7 J<br>N () U S E<br>R D 1 4 B B 2 C 1 2 2 J                | RES. METAL FILM 0.47 5% 1W  RES. CARBON 1.2K 5% 1/6W                         |
| R 3 5<br>R 3 6          | R D 1 4 B B 2 C 1 2 3 J<br>R D 1 4 B B 2 C 3 0 2 J                              | RES. CARBON 12K 5% 1/6W<br>RES. CARBON 3K 5% 1/6W                            |
| R 3 7<br>R 3 8<br>R 3 9 | R D 1 4 B B 2 C 5 1 0 J<br>R D 1 4 B B 2 C 3 3 3 J<br>R D 1 4 B B 2 C 2 7 3 J   | RES. CARBON 51 5% 1/6W<br>RES. CARBON 33K 5% 1/6W<br>RES. CARBON 27K 5% 1/6W |
| R 4 0<br>R 4 3          | R N 1 4 B K 2 C 5 1 R O F  R D 1 4 B B 2 C 1 O 3 J                              | RES. METAL FILM 51.0 1% 1/6W  RES. CARBON 10K 5% 1/6W                        |
| R 4 4<br>R 4 5          | R D 1 4 B B 2 C 1 O 1 J<br>R D 1 4 D B 2 H 8 2 2 J                              | RES. CARBON 100 5% 1/6W<br>RES. CARBON 8.2K 5% 1/2W                          |
| R 6 7                   | R S 1 4 G B 3 D R 2 2 J   | RES. METAL FILM 0.22 5% 2W   |
| R 7 4<br>R 7 5<br>R 7 6 | R D 1 4 B B 2 C 1 0 2 J<br>R D 1 4 D B 2 H 8 2 2 J<br>R D 1 4 B B 2 C 1 0 2 J   | RES. CARBON 1K 5% 1/6W RES. CARBON 8.2K 5% 1/2W RES. CARBON 1K 5% 1/6W       |
| R 7 7<br>R 7 8<br>R 7 9 | NO USE<br>RD14BB2C102J<br>RD14DB2H102J  | RES. CARBON 1 K 5 % 1/6 W RES. CARBON 1 K 5 % 1/2 W                          |
| R 8 5                   | R D 1 4 D B 2 H 1 O 1 J   | RES. CARBON 100 5% 1/2W  |
| R 8 8<br>R 8 9          | R D 1 4 B B 2 C 1 O 4 J<br>NO U S E   | RES. CARBON 100K 5% 1/6W RES. CARBON 1K 5% 1/6W                              |
| R 9 0<br>R 9 1<br>R 9 2 | R D 1 4 B B 2 C 1 0 2 J<br>R D 1 4 B B 2 C 1 0 3 J<br>R D 1 4 B B 2 C 1 0 2 J   | RES. CARBON 10K 5% 1/6W<br>RES. CARBON 1K 5% 1/6W                            |
| R 9 3<br>R 9 4<br>R 9 5 | R D 1 4 B B 2 C 2 O 5 J<br>R D 1 4 B B 2 C 5 1 O J<br>N O U S E                 | RES. CARBON 2M 5% 1/6W RES. CARBON 51 5% 1/6W                                |
| R 9 6                   | R D 1 4 B B 2 C 9 1 2 J   | RES. CARBON 9.1K 5% 1/6W   |
| R O 1<br>R Y 1          | R N 1 4 B K 2 C 1 0 0 3 F<br>S 7 6 - 0 6 0 4 - 0 8                              | RES. METAL FILM 100K 1% 1/6W RELAY   |
| R Y 2<br>R Y 3<br>R Y 4 | S 7 6 - 0 6 0 4 - 0 8<br>S 7 6 - 0 6 0 4 - 0 8<br>S 7 6 - 0 6 3 0 - 0 8         | RELAY<br>RELAY<br>RELAY  |
| S W 1<br>S W 2          | S 6 8 - 0 6 3 1 - 0 5<br>S 3 1 - 1 5 1 2 - 0 8                                  | OUTPUT SW<br>MASTER/SLAVE SWITCH   |
| V R 1<br>V R 2<br>V R 3 | R 1 2 - 1 5 6 4 - 0 8<br>R 1 2 - 5 5 4 7 - 0 8<br>R 1 2 - 0 5 9 7 - 0 8         | RES. SEMI FIXED 1KB RES. SEMI FIXED 100KB RES. SEMI FIXED 100                |
| Z D 1                   | H Z S 6 A   | DIODE, ZENER 5.75V   |

|                               | Y86-1890-00   | _   |
|-------------------------------|---|-----|
| REF. NO                       | PARTS NO  A 0 1 - 1 2 3 8 - 0 8 A 6 3 - 0 1 1 6 - 0 8 B 3 1 - 0 7 6 0 - 0 8 B 3 1 - 0 7 6 0 - 0 8 B 4 0 - 2 7 3 7 - 2 4 B 4 2 - 3 7 3 1 - 0 8 B 4 2 - 3 7 3 1 - 0 8 B 4 2 - 3 7 3 8 - 0 8 B 4 2 - 3 7 3 8 - 0 8 B 4 2 - 6 0 4 5 - 0 8 B 4 2 - 6 0 4 5 - 0 8 B 4 2 - 6 0 4 6 - 0 8 B 4 2 - 6 0 4 6 - 0 8 B 4 2 - 6 0 4 7 - 0 8 B 4 2 - 6 0 4 7 - 0 8 B 4 2 - 6 0 4 7 - 0 8 B 4 2 - 6 0 4 7 - 0 8 B 4 2 - 6 0 4 7 - 0 8 B 4 2 - 6 0 4 7 - 0 8 B 4 2 - 6 0 4 7 - 0 8 B 4 2 - 6 0 4 7 - 0 8 B 4 2 - 6 0 4 7 - 0 8 B 4 2 - 6 0 4 8 - 0 8 B 4 2 - 6 0 4 8 - 0 8 B 4 2 - 6 0 4 9 - 0 8 B 4 2 - 6 0 4 8 - 0 8 B 4 2 - 6 0 4 8 - 0 8 B 4 2 - 6 0 4 8 - 0 8 B 4 3 - 10 7 0 0 B 4 3 - 0 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |     |
|                               | E21-0672-03     TERMINAL, WHITE E29-0506-04     SHORTING BAR E30-0542-08     LUG: M3 E30-0545-05     JIS POWER CORD E30-0571-15     SAA POWER CORD E30-1815-05     CEE POWER CORD E30-1867-05     FOI-0886-08     HEAT SINK F05-3022-05     FUSE(6X32MM) 3A/250V F29-0517-08     INSULATOR: FOR Q6/Q11 INSULATOR: FOR Q11A/Q11B/Q11C F50-0004-08     FUSE(5X20MM) 3A/250V FUSE(6X30MM) 5A/125V FUSE(6X30MM) 5A/125V FUSE(6X30MM) 5A/125V FUSE(6X30MM) 5A/125V FUSE(6X30MM) 5A/125V FOMED STYRENE PAD (REAR)   |     |
|                               |   |     |
|                               | K 2 1 - 0 9 1 1 - 0 4 K N O B; F I N E / C U R R E N T K 2 4 - 3 0 0 6 - 0 4 K N O B; O U T P U T L 2 7 - 0 5 0 9 - 0 4 I 0 7 - 15 2 0 - 0 8 N O 9 - 0 7 1 8 - 0 5 S C R E W; S E M S N O 9 - 0 7 7 6 - 0 5 S C R E W; S E M S N O 9 - 0 7 7 7 - 0 5 S C R E W; S E M S N O 9 - 0 7 7 7 - 0 5 S C R E W; S E M S N O 9 - 0 7 7 7 - 0 5 S C R E W; S E M S N O 9 - 0 7 8 9 - 0 5 S C R E W; S E M S N O 9 - 0 7 9 7 - 0 8 S C R E W; S E M S N O 9 - 0 7 9 7 - 0 8 S C R E W; S E M S N O 9 - 0 7 9 7 - 0 8 S C R E W; S E M S N O 9 - 0 7 9 7 - 0 8 S C R E W; S E M S N O 9 - 0 7 9 7 - 0 8 S C R E W; S E M S N O 9 - 0 7 9 7 - 0 8 S C R E W; S E M S N O 9 - 0 7 9 7 - 0 8 S C R E W; S E M S N O 9 - 0 7 9 7 - 0 8 S C R E W; S E M S N O 9 - 0 7 9 7 - 0 8 S C R E W; S E M S N O 0 6 - 4 1 S C R E W; B I N D I N G T A P T I T E S X I 2  | . χ |
| V R O 1<br>V R O 2<br>V R O 3 | \$10-2533-08 PUSH SWITCH: POWER W02-2271-08 ANP UNIT R29-3503-08 VOLUME 10K R29-1508-08 VOLUME 1K R29-3504-08 VOLUME 10K  |     |

PR36-3A

|   | PR36   | 6-3A AMP UNIT  | REF.   |   | NAME & DESC   | RIPTIC   | ) N ·                           |                                      |
|---|--|--|--|---|---|--|---------------------------------|--------------------------------------|
| W02-2271-08                               |  |  |  | 2 S C 1 8 1 5 ( G R )<br>2 S C 1 8 1 5 ( G R )  | TR. SI, NPN<br>TR. SI, NPN  |  |                                 |                                      |
| REF. NO                                   | PARTS NO E21-0674-08 E40-7191-08 E40-7142-08 J13-0518-08 J73-0326-08   | NAME & DESCRIPTION EXTERNAL OUTPUT TERMINAL PIN CONNECTOR 2P(LIME VOLTAGE) PIN CONNECTOR 1P(LIME VOLTAGE) FUSE CLIP; FOR 6X30MM PCB (UNMOUNTED)  | Q 5<br>Q 6<br>Q 7<br>Q 8<br>Q 9<br>Q 1 0                 | 2 S C 1 8 1 5 ( G R )<br>2 S D 1 1 4 4 8 ( 0 )<br>2 S C 2 2 2 3 8 ( Y )<br>2 S C 3 4 2 1 ( Y )<br>2 S C 1 8 1 5 ( G R )<br>2 S C 1 8 1 5 ( G R )<br>2 S D 1 1 4 8 ( 0 ) | TR. SI, NPN |  |                                 |                                      |
| C 1<br>C 2<br>C 3<br>C 4<br>C 5<br>C 6    | R 9 2 - 0 1 5 0 - 0 5<br>R 9 2 - 1 0 6 1 - 0 5<br>C 9 0 - 3 0 1 9 - 0 8<br>C 0 9 2 M 1 H 1 0 2 K<br>C 9 1 - 2 5 5 9 - 0 8<br>C 0 9 2 M 1 H 4 7 2 K<br>C 0 9 2 M 1 H 1 0 3 K<br>N 0 U S E | JUMPING RES. ZERO OHM (10MM) JUMPING RES. ZERO OHM (5MM) CAP. ELECTRO 1000 105°C 35V CAP. MYLAR 1000P 10% 50V CAP. CERAMIC 0.10.25P 50V CAP. MYLAR 4700P 10% 50V CAP. MYLAR 0.01 10% 50V | Q 1 5<br>Q 1 6<br>Q 1 7<br>Q 1 1 A<br>Q 1 1 B<br>Q 1 1 C | 2SD1148(0)  | TR. SI, NPN TR. DIGITAL TR. SI, NPN TR. SI, NPN TR. SI, NPN                                     |  |                                 |                                      |
| C 7<br>C 8<br>C 9<br>C 1 0                | C 9 0 - 3 0 2 0 - 0 8<br>C F 9 3 A N 2 E R 2 2 K<br>N 0 U S E  | CAP. ELECTRO 100 105°C 25V CAP. POLYESTER 0.22P 10% 250V CAP. ELECTRO 2200 105°C 63V   | R 1<br>R 2   | R D 1 4 B B 2 C 1 2 2 J<br>R D 1 4 B B 2 C 1 2 3 J  | RES. CARBON<br>RES. CARBON  | 1 . 2 K<br>1 2 K                               | 5 %<br>5 %                      | 1 / 6 W<br>1 / 6 W                   |
| C 1 1                                     | C 9 0 - 3 0 4 2 - 0 8<br>C F 9 3 A N 1 J R 2 2 K   | CAP. POLYESTER 0.22P 10% 63V   | R 2<br>R 3<br>R 4  | R D 1 4 D B 2 H 3 O 2 J<br>R D 1 4 B B 2 C 3 O 2 J<br>R D 1 4 B B 2 C 5 1 O J   | RES. CARBON<br>RES. CARBON<br>RES. CARBON   | 3 K<br>3 K<br>5 1                              | 5 %<br>5 %<br>5 %               | 1/2W<br>1/6W<br>1/6W                 |
| C 2 2<br>C 2 6<br>C 2 7<br>C 2 8<br>C 2 9 | C 9 1 - 2 5 5 9 - 0 8  C 9 0 - 3 1 7 4 - 0 8  N 0 U S E  C 9 0 - 3 0 2 0 - 0 8  C 9 1 - 2 5 5 9 - 0 8  | CAP. CERANIC 0.1 0.25P 50V  CAP. ELECTRO 10 1% 50V  CAP. FLECTRO 100 105 C 25V  CAP. CERANIC 0.1 0.25P 50V   | R 5<br>R 6<br>R 7<br>R 8<br>R 9<br>R 1 0                 | R D I 4 B B 2 C I 2 3 J<br>R D I 4 B B 2 C 2 7 3 J<br>R N I 4 B B 2 C 2 7 0 I F<br>R D I 4 B B 2 C 2 0 2 J<br>R D I 4 B B 2 C 1 0 2 J<br>R D I 4 B B 2 C 3 0 2 J        | RES. CARBON RES. CARBON RES. METAL FILM RES. CARBON RES. CARBON RES. CARBON                     | 1 2 K<br>2 7 K<br>2 . 4 K<br>2 K<br>1 K<br>3 K | 5 %<br>5 %<br>1 %<br>5 %<br>5 % | 1/6W<br>1/6W<br>1/6W<br>1/6W<br>1/6W |
| C 3 2                                     | C F 9 3 A N 1 J 1 R O K  | CAP. POLYESTER 1P 10% 63V  | R 1 1<br>R 1 2   | RD14BB2C513J<br>NO USE  | RES. CARBON   | 5 1 K  | 5 %                             | 1/6W<br>1/6W                         |
| C N 1<br>C N 2<br>C N 3                   | E 4 0 - 7 2 1 8 - 0 8<br>E 4 0 - 7 3 4 4 - 0 8<br>NO USE   | PIN CONNECTOR 2P PIN CONNECTOR 3P PIN CONNECTOR 2P   | R 1 3<br>R 1 4<br>R 1 5<br>R 1 6                         | R D I 4 B B 2 C 2 O 2 J<br>R D I 4 B B 2 C 1 5 2 J<br>R D I 4 B B 2 C 1 O 2 J<br>R D I 4 B B 2 C 5 I 2 J  | RES. CARBON<br>RES. CARBON<br>RES. CARBON<br>RES. CARBON  | 2 K<br>1 . 5 K<br>1 K<br>5 . 1 K               | 5 %<br>5 %<br>5 %               | 1/6W<br>1/6W<br>1/6W<br>1/6W         |
| C N 4<br>C N 5<br>C N 6<br>C N 7<br>C N 8 | E 4 0 - 7 1 2 6 - 0 8<br>E 4 0 - 7 2 1 9 - 0 8<br>E 4 0 - 7 2 1 9 - 0 8<br>E 4 0 - 7 2 2 9 - 0 8<br>E 4 0 - 7 2 2 9 - 0 8  | PIN CONNECTOR 2.P PIN CONNECTOR 3.P PIN CONNECTOR 3.P PIN CONNECTOR 4.P PIN CONNECTOR 4.P  | R 1 7<br>R 1 8<br>R 1 9<br>R 2 0<br>R 2 1<br>R 2 2       | NO USE RD14BB2C513J RD14BB2C103J RD14BB2C102J RN14BB2C102J RN14BB2C102J RD14BB2C102J  | RES. CARBON<br>RES. CARBON<br>RES. CARBON<br>RES. METAL FILM                                    | 5 1 K<br>1 0 K<br>1 K<br>3 3 0 K               | 5 %<br>5 %<br>5 %               | 1/6W<br>1/6W<br>1/6W<br>1/6W         |
| C N 1 1<br>C N 1 2<br>C N 1 3             | E 4 0 - 7 3 3 2 - 0 8<br>E 4 0 - 7 3 3 3 - 0 8<br>E 4 0 - 7 3 3 3 - 0 8  | PIN CONNECTOR 4P PIN CONNECTOR 2P PIN CONNECTOR 2P   | R 2 3<br>R 2 4   | R N 1 4 B K 2 C 9 I 0 2 F<br>R N 1 4 B K 2 C 3 O 0 1 F  | RES. CARBON<br>RES. METAL FILM<br>RES. METAL FILM   |  | 5 %<br>1 %<br>1 %               | 1/6W<br>1/6W<br>F/6W                 |
| C N 1 8                                   | E 4 0 - 7 4 4 0 - 0 8  | CONNECTOR  | R 2 7<br>R 2 8<br>R 2 9                                  | R D 1 4 B B 2 C 1 O 2 J<br>R D 1 4 B B 2 C 1 O 3 J<br>R S 1 4 G B 3 D 3 9 2 J   | RES. CARBON<br>RES. CARBON<br>RES. METAL FILM   | 1 0 K  | 5 %<br>5 %<br>5 %               | 1 / 6 W<br>1 / 6 W<br>2 W            |
| C N 2 3<br>C N 2 4                        | E 4 0 - 3 2 4 0 - 0 5<br>E 4 0 - 7 3 3 3 - 0 8   | PIN CONNECTOR 5P<br>PIN CONNECTOR 2P   | R 3 0<br>R 3 1   | RS14GB3AR51J<br>NO USE  | RES. METAL FILM   | 0.51   | 5 %                             | 1 W                                  |
| C 0 1                                     | C 9 0 - 3 0 1 8 - 0 8  | CAP. ELECTRO 1 105°C 50V   | R 3 2<br>R 3 3<br>R 3 4                                  | R S J 4 G B 3 A R 5 1 J<br>NO USE<br>R D I 4 B B 2 C 1 2 2 J  | RES. METAL FILM RES. CARBON   | 0.51<br>1.2K                                   | 5 %<br>5 %                      | 1 W                                  |
| C 0 1<br>C 0 2<br>C 0 3                   | C 9 1 - 1 3 2 3 - 0 8<br>N O U S E<br>C 9 0 - 3 0 4 6 - 0 8  | CAP. ELECTRO 100 105°C 50V   | R 3 5<br>R 3 6<br>R 3 7<br>R 3 8                         | R D 1 4 B B 2 C 1 2 3 J<br>R D 1 4 B B 2 C 3 0 2 J<br>R D 1 4 B B 2 C 3 0 2 J<br>R D 1 4 B B 2 C 5 1 0 J<br>R D 1 4 B B 2 C 3 3 3 J                                     | RES. CARBON RES. CARBON RES. CARBON RES. CARBON   | 1 2 K<br>3 K<br>5 1<br>3 3 K                   | 5 %<br>5 %<br>5 %               | 1/6W<br>1/6W<br>1/6W<br>1/6W         |
| D 1<br>D 2<br>D 3<br>D 4                  | 1 B 4 B 4 2<br>E R A 1 5 - 0 1<br>1 S S 2 7 0 A<br>1 S S 2 7 0 A   | DIODE, STACK<br>DIODE<br>DIODE<br>DIODE  | R 3 9<br>R 4 0<br>R 4 3                                  | R D 1 4 B B 2 C 2 7 3 J<br>R N 1 4 B K 2 C 5 1 R O F  | RES. CARBON<br>RES. METAL FILM  | 27K<br>51.0                                    | 5 %<br>1 %                      | 1/6W<br>1/6W                         |
| D 5<br>D 6<br>D 7                         | 1 S S 2 7 0 Å<br>1 S S 2 7 0 Å<br>1 S S 2 7 0 Å  | D   O D E<br>D   O D E<br>D   O D E  | R 4 4<br>R 4 5   | R D 1 4 B B 2 C 1 O 3 J<br>R D 1 4 B B 2 C 1 O 1 J<br>R D 1 4 D B 2 II 8 2 2 J  | RES. CARBON<br>RES. CARBON<br>RES. CARBON   | 10K<br>100<br>8.2K                             | 5 %<br>5 %<br>5 %               | 1 / 6 W<br>1 / 6 W<br>1 / 2 W        |
| D 8<br>D 9                                | N () U S E<br>D 1 0 X B 4 0  | DIODE, STACK<br>DIODE  | R 6 7  | R S I 4 G B 3 D R 1 5 J   | RES. METAL FILM   | 0.15   | 5 🐒                             | 2 W                                  |
| D 1 0<br>D 1 4<br>D 1 5<br>D 1 6          | E R A 1 5 - 0 1  1 S S 2 7 0 A  1 S S 2 7 0 A  1 S S 2 7 0 A   | DIODE<br>DIODE<br>DIODE  | R 7 4<br>R 7 5<br>R 7 6<br>R 7 7<br>R 7 8                | R D 1 4 B B 2 C 1 0 2 J<br>R D 1 4 D B 2 H 8 2 2 J<br>R D 1 4 B B 2 C 1 0 2 J<br>N O U S E<br>R D 1 4 B B 2 C 1 0 2 J   | RES. CARBON RES. CARBON RES. CARBON   | 1 K<br>8 . 2 K<br>1 K                          | 5 %<br>5 %<br>5 %               | 1/6W<br>1/2W<br>1/6W                 |
| D 2 8                                     | 1 S S 2 7 0 A  | DIODE  | R 7 9  | RD14DB2H102J  | RES. CARBON<br>RES. CARBON  | 1 K<br>1 K                                     | 5 %<br>5 %                      | 1 / 6 W<br>1 / 2 W                   |
| D 3 3<br>D 3 4                            | ERA15-01<br>1SS270A  | DIODE<br>DIODE   | R 8 5<br>R 8 8   | RD14DB2H101J  | RES. CARBON   | 100  | 5 %                             | 1 / 2 W                              |
| D 3 7<br>D 3 8<br>D 3 9                   | E R A 1 5 - 01<br>1 S S 2 7 0 A<br>E R A 1 5 - 01  | DIODE<br>DIODE<br>DIODE  | R 8 9<br>R 9 0<br>R 9 1<br>R 9 2<br>R 9 3                | R D I 4 B B 2 C I 0 4 J<br>NO USE<br>R D I 4 B B 2 C I 0 2 J<br>R D I 4 B B 2 C I 0 2 J<br>R D I 4 B B 2 C I 0 2 J<br>R D I 4 B B 2 C 2 0 5 J                           | RES. CARBON RES. CARBON RES. CARBON RES. CARBON   | 1 0 0 K  |                                 | 1/6W<br>1/6W<br>1/6W                 |
| D O 1                                     | 3 0 0 1  | DIODE  | R 9 4<br>R 9 5   | RD14BB2C510J<br>NO USE  | RES. CARBON<br>RES. CARBON  | 2 M<br>5 I                                     | 5 %<br>5 %                      | 1/6W<br>1/6W                         |
| I C 1<br>I C 2<br>I C 3                   | UPC151C<br>UPC151C -<br>UPC1093J   | IC,OP AMP IC,OP AMP IC,VARIABLE SHUNT REGULATOR  | R 9 6<br>R 3 2 A   | R D I 4 B B 2 C 9 1 2 J<br>R S 1 4 G B 3 A R 5 1 J  | RES. CARBON   | 9.1K   | 5 <b>%</b>                      | 1/6₩                                 |
| 1 C 9                                     | II A 1 7 8 L 1 2 A   | IC, TERMINAL FIXED VOLTAGE REG.  | R 3 2 B<br>R 3 2 C                                       | RS14GB3AR51J<br>RS14GB3AR51J  | RES. METAL FILM<br>RES. METAL FILM<br>RES. METAL FILM   | 0.51   | 5 %<br>5 %<br>5 %               | 1 W<br>1 W<br>1 W                    |
| L E D 1<br>L E D 2<br>L E D 0             | L N 3 2 2 G P<br>L N 2 2 2 R P<br>L N 2 2 2 R P  | LED; GREEN<br>LED; RED<br>LED; RED   | R O 1<br>R Y 1   | R N 1 4 B K 2 C 1 0 0 3 F<br>S 7 G - 0 6 0 4 - 0 8  | RES. METAL FILM   |  | 1 %                             | 1/6W                                 |
| L E D O 1<br>Q 1<br>Q 2                   | L N 2 2 2 R P 2 S C 1 8 1 5 ( G R ) 2 S C 1 8 1 5 ( G R )  | LED:RED  TR. SI, NPN  TR. SI, NPN  | R Y 2<br>R Y 3<br>R Y 4                                  | S76-0604-08<br>S76-0604-08<br>S76-0604-08   | RELAY<br>RELAY<br>RELAY   |  |                                 |                                      |

# **PARTS LIST**

NAME & DESCRIPTION OUTPUT SW MASTER/SLAVE SWITCH

RES. SEMI FIXED 1KB RES. SEMI FIXED 100KB RES. SEMI FIXED 100

DIODE, ZENER 5.75 V

|  | PR70-1A  |
|--|--|
|  | Y86-1900-00  |
| REF. NO  PARTS NO A01-1237-08 A63-0117-08 B31-0761-08 B31-0761-08 B31-0762-08 B40-2737-24 B42-3731-08 B42-6050-08 B42-6050-08 B42-6050-08 B42-6053-08 B42-6053-08 B42-6053-08 B42-6053-08 B42-6053-08 B42-6053-08 B42-6053-08  | NAME & DESCRIPTION - CASE FRONT PANEL METER; CURRENT METER; VOLT SERIAL NO. PLATE MASTER/SLAVE LABEL FUSE RATING: AC100 V 50/60HZ 110W RATING: AC120V 50/60HZ 110W RATING: AC240V 50/60HZ 110W RATING: AC240V 50/60HZ 110W RATING: AC240V 50/60HZ 110W RATING: AC240V 50/60HZ 110W RATING: AC210V 60HZ 110W RATING: AC210V 60HZ 110W RATING: AC210V 60HZ 110W RATING: AC110W 60HZ 110W RATING: AC120W 60HZ 1 |
| E 2 9 - 0 5 4 2 - 0 8<br>E 3 0 - 0 0 2 7 - 3 5<br>E 3 0 - 0 5 4 5 - 0 5<br>E 3 0 - 0 5 4 1 - 1 5<br>E 3 0 - 1 8 1 5 - 0 5<br>E 3 0 - 1 8 6 7 - 0 5   | UL/CSA POWER CORD JIS POWER CORD SAA POWER CORD CEE POWER CORD BS POWER CORD   |
| F 0 1 - 0 8 8 5 - 0 8 F 0 5 - 2 0 2 1 - 0 8 F 0 5 - 2 0 2 3 - 0 5 F 2 9 - 0 5 1 7 - 0 8 F 2 9 - 0 5 1 8 - 0 8 F 5 1 - 0 0 0 9 - 0 8 II 1 0 - 2 8 5 3 - 0 8 II 2 0 - 1 7 3 4 - 0 8 II 5 3 - 0 1 1 6 - 0 8   | FUSE(5X20MM) 2A/250V FUSE(6X32MM) 2A/250V FUSULATOR: FOR Q6/Q11 INSULATOR: FOR Q11A/Q11B/Q11C FUSE(6X30MM) 3A/125V FOAMED STYRENE PAD (FRONT) FOAMED STYRENE PAD (REAR) VINYL COVER CARTON BOX   |
| J 0 2 - 0 5 2 9 - 0 8<br>J 1 9 - 1 6 7 1 - 0 8<br>J 1 9 - 1 6 7 2 - 0 8<br>J 2 1 - 4 7 2 0 - 0 8<br>J 2 1 - 4 7 5 8 - 0 8  | FOOT CLAMPER; FOR 2-CORE AC CORD CLAMPER; FOR 3-CORE AC CORD BRACKET; FOR P. C. B BRACKET; FOR AC CORD BUSHING   |
| J 2 9 - 0 5 1 9 - 0 8<br>J 3 0 - 0 6 3 5 - 0 8<br>J 4 2 - 0 0 8 3 - 0 5<br>J 4 2 - 0 0 8 5 - 0 5<br>K 0 1 - 0 4 1 7 - 0 5<br>K 2 1 - 0 9 0 7 - 1 4   | VOLUME SPACER; FOR VRO1 BUSHING; FOR 2-CORE AC CORD BUSHING; FOR 3-CORE AC CORD HANDLE KNOB  |
| K 2 I - 0 9 I I - 0 4<br>K 2 4 - 3 0 0 6 - 0 4<br>K 2 7 - 0 5 0 9 - 0 4<br>I. 0 7 - 1 5 2 I - 0 8<br>N 0 9 - 0 7 1 8 - 0 5<br>N 0 9 - 0 7 7 5 7 - 0 5<br>N 0 9 - 0 7 7 7 - 0 5<br>N 0 9 - 0 7 8 9 - 0 5<br>N 0 9 - 0 7 9 7 - 0 5   | KNOB: FINE/CURRENT KNOB, OUTPUT PUSH BUTTON, ORANGE: POWER POWER TRANSFORMER SCREW, SEMS BAN HD M3X6 SCREW, SEMS BINDING TAPTITE 3/ SCREW, SEMS PAN HD M3X10 SCREW, SEMS PAN HD M4X6 SCREW, SEMS PAN HD M3X10 SCREW, SEMS TAPTITE 3X10   |
| $\begin{array}{c} \text{N 1 4 - 0 4 0 4 - 0 4} \\ \text{N 8 9 - 3 0 0 6 - 4 1} \\ \text{N 8 9 - 3 0 1 2 - 4 1} \\ \text{S 4 0 - 2 5 3 3 - 0 8} \\ \text{W 0 2 - 2 2 7 2 - 0 8} \\ \text{V R 0 1} \\ \text{R 2 9 - 3 5 0 3 - 0 8} \\ \text{V R 0 3} \\ \text{R 2 9 - 3 5 0 4 - 0 8} \\ \text{V R 0 3} \\ \end{array}$ | FLANGE NUT M3 SCREW, BINDING TAPTITE 3X6 SCREW, BINDING TAPTITE 3X12 PUSH SWITCH: POWER AMP UNIT VOLUME 10K VOLUME 1K VOLUME 10K   |

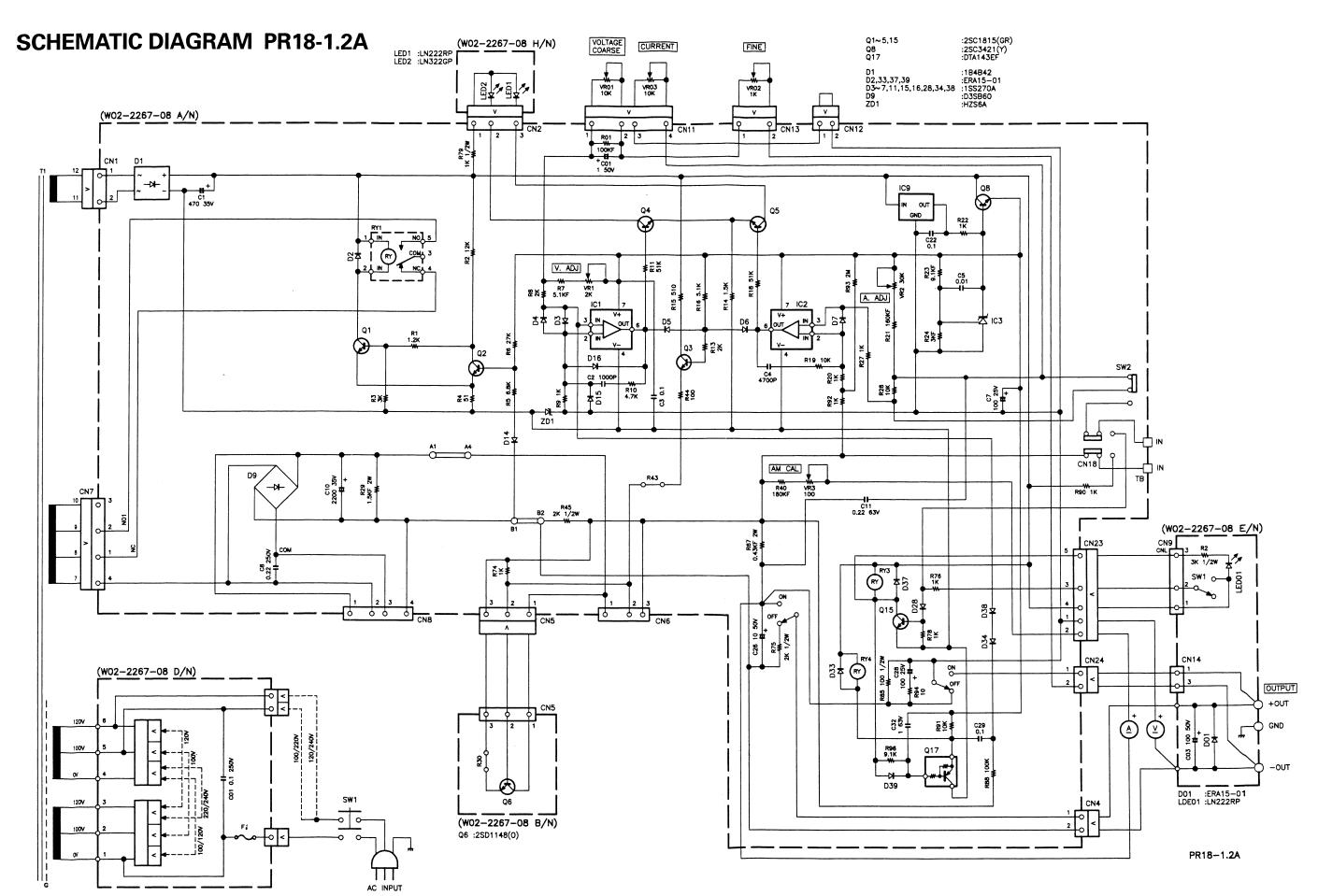
V R 1 R 1 2 - 1 5 6 4 - 0 8 V R 2 R 1 2 - 5 5 4 7 - 0 8 V R 3 R 1 2 - 0 5 9 7 - 0 8

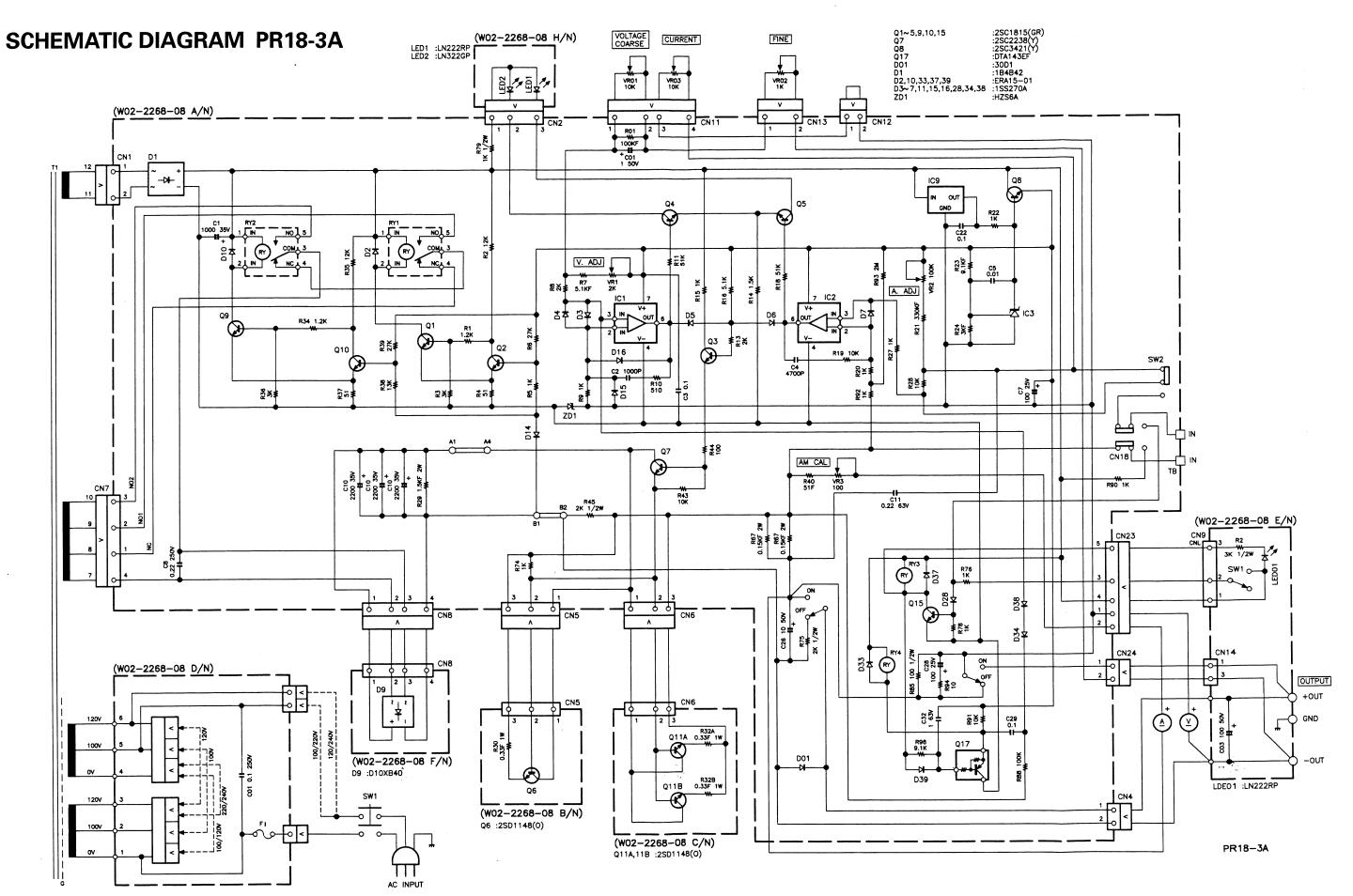
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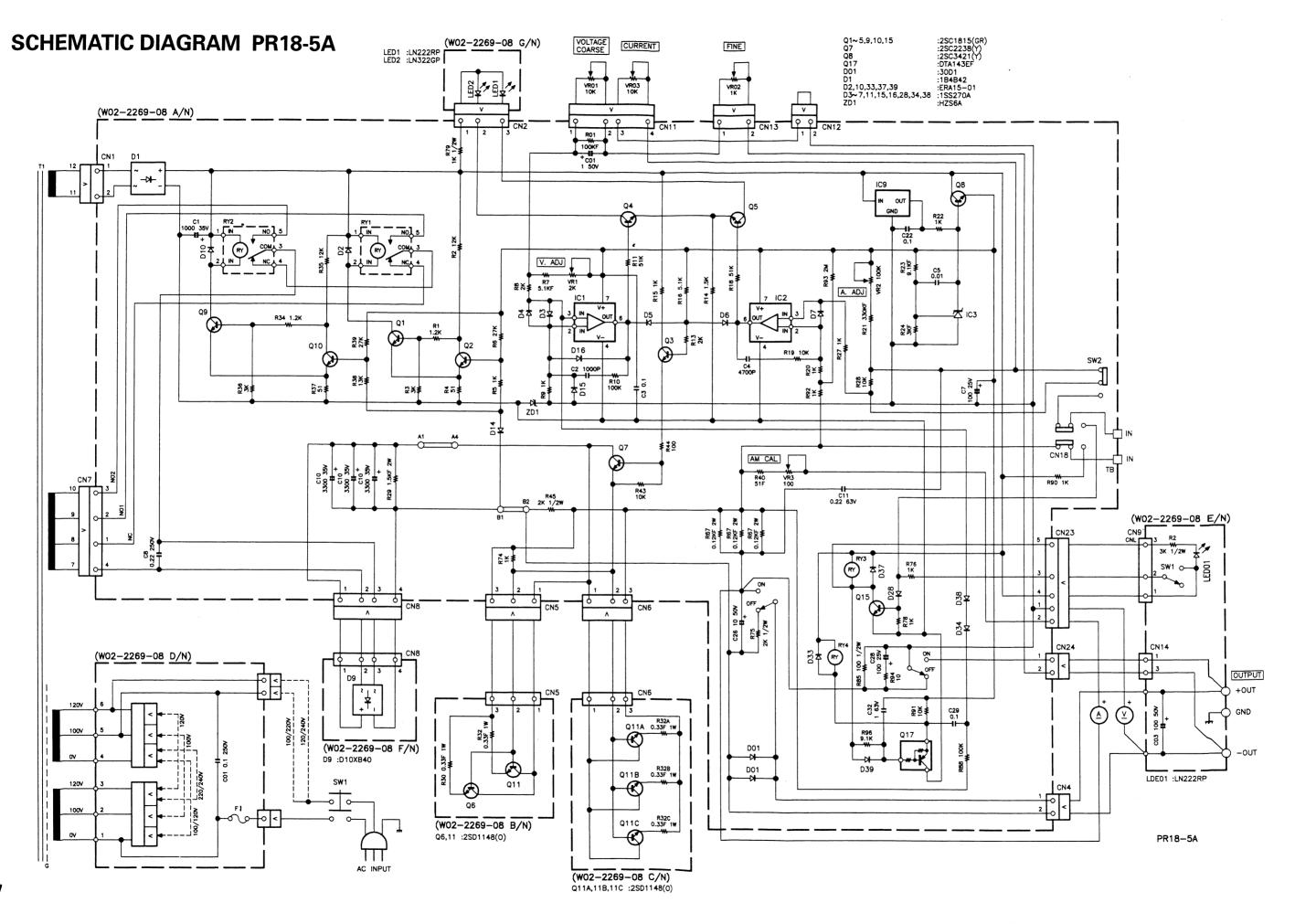
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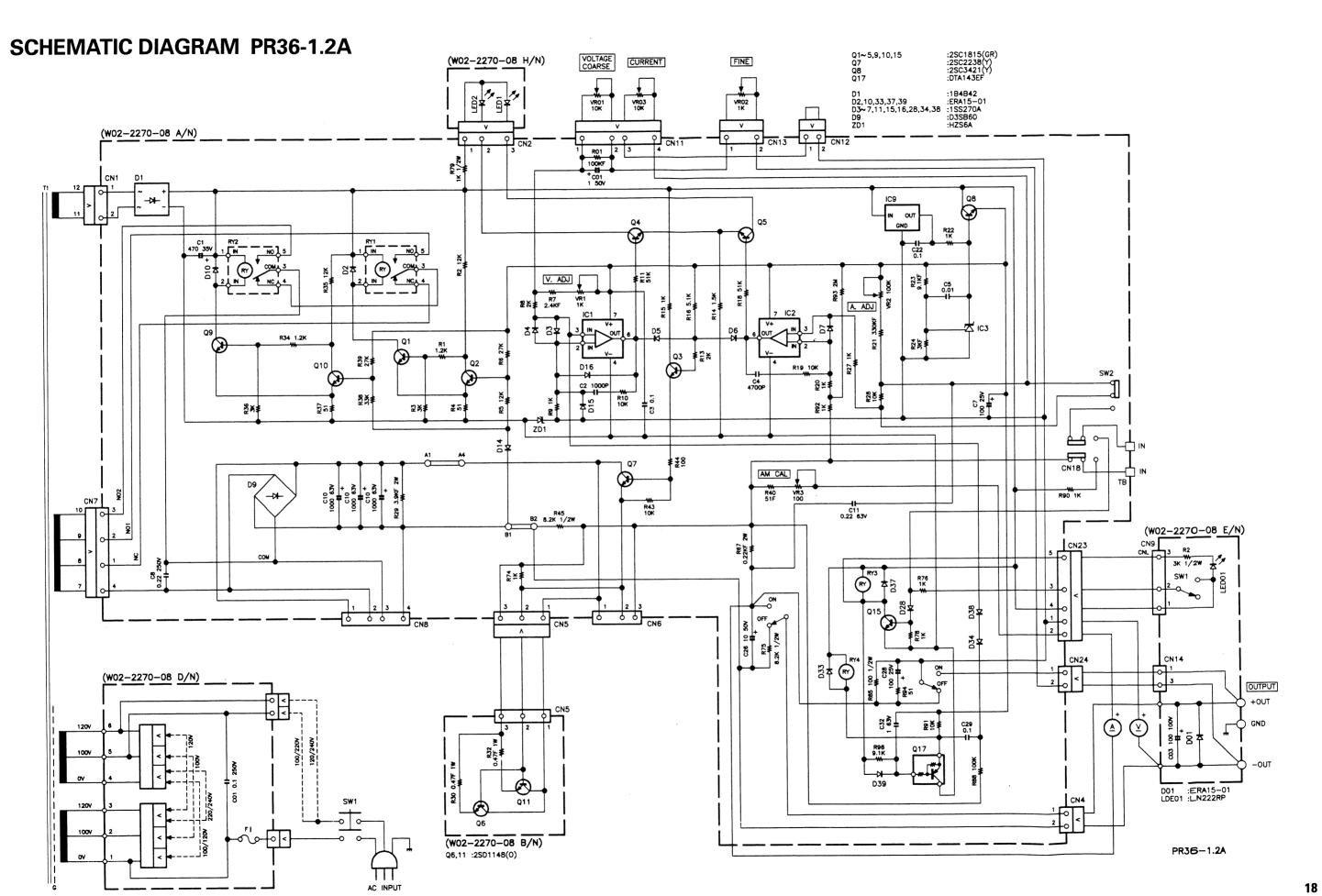
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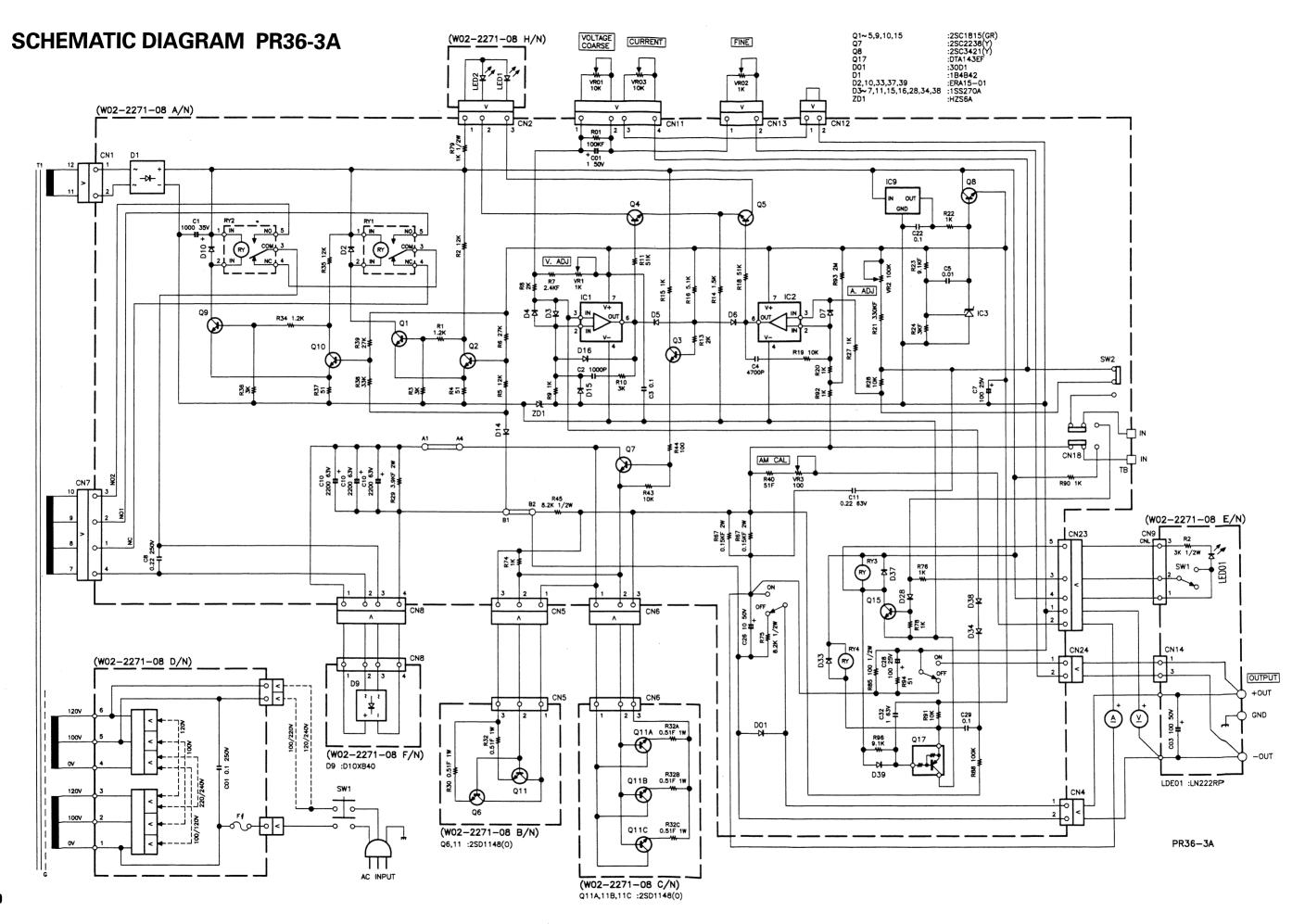
| PR70-1A AMP UNIT                       |  | REF. N   | O PARTS NO   | NAME & DESCRIPTION .  | REF. NO PARTS NO NAME & DESCRIPT<br>RY4 S76-0630-08 RELAY   |  |  |
|--|--|--|--|---|---|--|--|
| W02-2272-08                            |  |  | Q 1<br>Q 2   | 2 S C 1 8 1 5 ( G R )<br>2 S C 1 8 1 5 ( G R )  | TR. SI, NPN<br>TR. SI, NPN  | SW1 S68-0631-08  |  |
| C 1<br>C 2<br>C 3<br>C 4<br>C 5<br>C 6 | PARTS NO E21-0674-08 E40-7141-08 E40-7144-08 J13-0518-08 J73-0326-08 R92-0150-05 R92-1061-05 C90-3023-08 CQ92M1H102K CQ92M1H472K CQ92M1H472K CQ92M1H472K | NAME & DESCRIPTION  EXTERNAL OUTPUT TERMINAL  PIN CONNECTOR 2P(LINE VOLTAGE)  PIN CONNECTOR 1P(LINE VOLTAGE)  FUSE CLIP; FOR 6X30MM  PCB (UNMOUNTED)  JUMPING RES. ZERO OHM (10MM)  JUMPING RES. ZERO OHM (5MM)  CAP. ELECTRO 470 105°C 35V  CAP. MYLAR 1000P 10% 50V  CAP. HYLAR 4700P 10% 50V  CAP. MYLAR 0.01 10% 50V | Q3<br>Q4<br>Q5<br>Q6<br>Q7<br>Q8<br>Q9<br>Q10<br>Q11 | 2 S C 1 8 1 5 (G R)<br>2 S C 1 8 1 5 (G R)<br>2 S C 1 8 1 5 (G R)<br>2 S D 1 1 4 8 (O)<br>2 S C 2 2 2 3 8 (Y)<br>2 S C 3 4 2 1 (Y)<br>2 S C 3 4 2 1 (Y)<br>2 S C 1 8 1 5 (G R)<br>2 S C 1 8 1 5 (G R)<br>2 S C 1 8 1 5 (G R)<br>NO USE<br>DTA 1 4 3 E F | TR. SI, NPN | S W 2 S 3 1 - 1 5 1 2 - 0 8  V R 1 R 1 2 - 1 5 6 4 - 0 8  V R 2 R 1 2 - 5 5 4 7 - 0 8  V R 3 R 1 2 - 0 5 9 7 - 0 8 | MASTER/SLAVE SWITCH RES. SEMI FIXED IKB RES. SEMI FIXED 100KB RES. SEMI FIXED 100 DIODE, ZENER 5.75V |
| C 7<br>C 8                             | C 9 0 - 3 0 2 0 - 0 8<br>C F 9 3 A N 2 E R 2 2 K   | CAP. ELECTRO 100 105°C 25V CAP. POLYESTER 0.22P 10% 250V   | Q 1 1 B  |   | TR. SI, NPN<br>TR. SI, NPN  |  |  |
| C 9<br>C 1 0<br>C 1 1                  | NO USE<br>C90-3039-08<br>CF93AN1JR22K  | CAP. ELECTRO 330 105°C 160 V<br>CAP. POLYESTER 0.22P 10% 63 V  | R 1<br>R 2   | R D I 4 B B 2 C 1 2 2 J<br>R D I 4 B B 2 C 1 2 3 J  | RES. CARBON 1.2K 5% 1/6W<br>RES. CARBON 12K 5% 1/6W   |  |  |
| C 2 2                                  | 091-2559-08  | CAP. CERAMIC 0.1 0.25P 50V   | R 2  | R D 1 4 D B 2 H 3 O 2 J   | RES. CARBON 3K 5% 1/2W<br>RES. CARBON 1K 5% 1/6W  |  |  |
| C 2 6<br>C 2 7<br>C 2 8<br>C 2 9       | C90-4504-08<br>NO USE<br>C90-3020-08<br>C91-2559-08  | CAP.         ELECTRO         10         100 V           CAP.         ELECTRO         100 105°C 25 V           CAP.         CERAMIC         0.1 0.25P 50 V  | R 3<br>R 4<br>R 5<br>R 6<br>R 7<br>R 8               | R D 1 4 B B 2 C 1 0 2 J<br>R D 1 4 B B 2 C 5 1 0 J<br>R D 1 4 B B 2 C 3 0 3 J<br>R D 1 4 B B 2 C 2 7 3 J<br>R N 1 4 B K 2 C 1 0 0 1 F<br>R D 1 4 B B 2 C 2 0 2 J  | RES. CARBON 1K 5% 1/6W RES. CARBON 51 5% 1/6W RES. CARBON 30K 5% 1/6W RES. CARBON 27K 5% 1/6W RES. METAL FILM 1K 1% 1/6W RES. CARBON 2K 5% 1/6W                         |  |  |
| C 3 2<br>C 1 0 1                       | CF93AN1J1R0K<br>C91-2588-08  | CAP. POLYESTER 1P 10% 63V  CAP. CERANIC 0.1 10% 630V   | R 9<br>R 1 0<br>R 1 1                                | R D 1 4 B B 2 C 1 O 2 J<br>R D 1 4 B B 2 C 2 4 3 J<br>R D 1 4 B B 2 € 5 1 3 J   | RES. CARBON 1K 5% 1/6W<br>RES. CARBON 24K 5% 1/6W<br>RES. CARBON 51K 5% 1/6W  |  |  |
| C N 1<br>C N 2<br>C N 3                | E 4 0 - 7 2 1 8 - 0 8<br>E 4 0 - 7 3 4 4 - 0 8<br>N O U S E  | PIN CONNECTOR 2P<br>PIN CONNECTOR 3P   | R 1 2<br>R 1 3<br>R 1 4<br>R 1 5                     | NO USE RD14BB2C202J RD14BB2C152J RD14BB2C102J   | RES. CARBON 2K 5% 1/6W RES. CARBON 1.5K 5% 1/6W RES. CARBON 1K 5% 1/6W  |  |  |
| C N 4<br>C N 5<br>C N 6<br>C N 7       | E 4 0 - 7 1 2 6 - 0 8<br>E 4 0 - 7 2 1 9 - 0 8<br>E 4 0 - 7 2 1 9 - 0 8<br>E 4 0 - 7 2 1 9 - 0 8   | PIN CONNECTOR 2P PIN CONNECTOR 3P PIN CONNECTOR 3P PIN CONNECTOR 4P  | R 1 6<br>R 1 7<br>R 1 8<br>R 1 9<br>R 2 0            | R D 1 4 B B 2 C 5 1 2 J<br>N O U S E<br>R D 1 4 B B 2 C 5 1 3 J<br>R D 1 4 B B 2 C 1 0 3 J<br>R D 1 4 B B 2 C 1 0 2 J   | RES. CARBON 5.1K 5% 1/6W  RES. CARBON 51K 5% 1/6W  RES. CARBON 10K 5% 1/6W  RES. CARBON 1K 5% 1/6W  |  |  |
| C N 1 2<br>C N 1 3                     | E 4 0 - 7 3 3 2 - 0 8<br>E 4 0 - 7 3 3 3 - 0 8<br>E 4 0 - 7 3 3 3 - 0 8  | PIN CONNECTOR 1P PIN CONNECTOR 2P PIN CONNECTOR 2P CONNECTOR   | R 2 1<br>R 2 2<br>R 2 3<br>R 2 4                     | R N 1 4 B K 2 C 3 9 0 3 F<br>R D 1 4 B B 2 C 1 0 2 J<br>R N 1 4 B K 2 C 9 1 0 1 F<br>R N 1 4 B K 2 C 3 0 0 1 F  | RES. HETAL FILM 390K 1% 1/6W RES. CARBON 1K 5% 1/6W RES. HETAL FILM 9.1K 1% 1/6W RES. HETAL FILM 3K 1% 1/6W   |  |  |
|  | E 4 0 - 7 4 4 0 - 0 8<br>E 4 0 - 3 2 4 0 - 0.5   | PIN CONNECTOR 5P   | R 2 7<br>R 2 8                                       | R D 1 4 B B 2 C 1 O 2 J<br>R D 1 4 B B 2 C 1 O 3 J  | RES. CARBON 1K 5% 1/6W<br>RES. CARBON 10K 5% 1/6W   |  |  |
| C N 2 4<br>C O 1                       | E40-7333-08<br>C90-3038-08   | PIN CONNECTOR 2P  CAP. ELECTRO 1 105°C 100V  | R 2 9<br>R 3 0<br>R 3 1                              | R S 1 4 G B 3 D 1 2 3 J<br>R S 1 4 G B 3 A 1 R 5 J<br>N O USE   | RES. METAL FILM 12K 5% 2W RES. METAL FILM 1.5 5% 1W   |  |  |
| C O 1                                  | 091-1323-08  | CAP. CERANIC 0.1 20% 250V  | R 3 2<br>R 3 3                                       | RS14GB3A1R5J<br>NO USE  | RES. METAL FILM 1.5 5% 1W   |  |  |
| C O 2<br>C O 3<br>D 1                  | NO USE<br>C90-3048-08  | CAP. ELECTRO 100 105°C 100V<br>DIODE, STACK  | R 3 4<br>R 3 5<br>R 3 6<br>R 3 7                     | R D I 4 B B 2 C I 2 2 J<br>R D I 4 B B 2 C I 2 3 J<br>R D I 4 B B 2 C I 0 2 J<br>R D I 4 B B 2 C 5 I 0 J  | RES. CARBON 1.2K 5% 1/6W RES. CARBON 12K 5% 1/6W RES. CARBON 11K 5% 1/6W RES. CARBON 51 5% 1/6W   |  |  |
| D 2<br>D 3<br>D 4<br>D 5<br>D 6<br>D 7 | ERA 15-01<br>1SS 270A<br>1SS 270A<br>1SS 270A<br>1SS 270A<br>1SS 270A  | D10DE<br>D10DE<br>D10DE<br>D10DE<br>D10DE<br>D10DE   | R 3 8<br>R 3 9<br>R 4 0<br>R 4 3<br>R 4 4            | R D I 4 B B 2 C 7 5 3 J<br>R D I 4 B B 2 C 2 7 3 J<br>R N I 4 B K 2 C 5 1 R 0 F<br>R D I 4 B B 2 C 1 0 3 J<br>R D I 4 B B 2 C 1 0 I J   | RES. CARBON 75K 5% 1/6W RES. CARBON 27K 5% 1/6W RES. METAL FILM 51.0 1% 1/6W RES. CARBON 10K 5% 1/6W RES. CARBON 100 5% 1/6W  |  |  |
| D 8<br>D 9<br>D 1 0                    | NO USE<br>D3SB60<br>ERA15-01   | DIODE, STACK   | R 4 5  | R D 1 4 D B 2 H 3 O 3 J<br>R S 1 4 G B 3 D R 2 2 J  | RES. CARBON 30K 5% 1/2W RES. METAL FILM 0.22 5% 2W  |  |  |
| D I 4<br>D I 5<br>D I 6                | 1 S S 2 7 0 A<br>1 S S 2 7 0 A<br>1 S S 2 7 0 A  | D I O D E<br>D I O D E   | R 7 4<br>R 7 5<br>R 7 6<br>R 7 7                     | R D 1 4 B B 2 C 1 O 2 J<br>R D 1 4 D B 2 H 3 O 3 J<br>R D 1 4 B B 2 C 1 O 2 J<br>N O USE  | RES. CARBON 1K 5% 1/6W RES. CARBON 30K 5% 1/2W RES. CARBON 1K 5% 1/6W   |  |  |
| D 2 8                                  | 1 S S 2 7 0 A  | DIODE  | R 7 8<br>R 7 9                                       | R D I 4 B B 2 C I O 2 J<br>R D I 4 D B 2 H I O 2 J  | RES. CARBON 1K 5% 1/6W<br>RES. CARBON 1K 5% 1/2W  |  |  |
| D 3 3<br>D 3 4                         | ERA 15 - 01<br>15 S 2 7 O A  | DIODE<br>DIODE   | R 8 5  | R D 1 4 D B 2 H 1 O 1 J   | RES. CARBON 100 5% 1/2W   |  |  |
| D 3 7<br>D 3 8<br>D 3 9                | ERA 1 5 - 0 1<br>1 S S 2 7 0 A<br>ERA 1 5 - 0 1  | DIODE<br>DIODE<br>DIODE  | R 8 8<br>R 8 9<br>R 9 0<br>R 9 1                     | R D I 4 B B 2 C 1 O 4 J<br>NO USE<br>R D I 4 B B 2 C 1 O 2 J<br>R D I 4 B B 2 C 1 O 3 J   | RES. CARBON 100K 5% 1/6W  RES. CARBON 1K 5% 1/6W  RES. CARBON 10K 5% 1/6W   |  |  |
| D O 1                                  | ERA 15 - 01  | DIODE  | R 9 2<br>R 9 3<br>R 9 4                              | R D I 4 B B 2 C 1 O 2 J<br>R D I 4 B B 2 C 2 O 5 J<br>R D I 4 B B 2 C 1 O 1 J   | RES. CARBON 1K 5% 1/6W<br>RES. CARBON 2N 5% 1/6W<br>RES. CARBON 100 5% 1/6W   |  |  |
| 1 C 1<br>1 C 2<br>1 C 3                | UPC 151C<br>UPC 151C<br>UPC 1093J  | IC,OP AMP IC,OP AMP IC,VARIABLE SHUNT REGULATOR IC,TERMINAL FIXED VOLTAGE REG.   | R 9 4<br>R 9 5<br>R 9 6<br>R 3 2 Å                   | R D 1 4 B B 2 C 1 0 1 J<br>R O U S E<br>R D 1 4 B B 2 C 9 1 2 J<br>R S 1 4 G B 3 A 1 R 5 J<br>R S 1 4 G B 3 A 1 R 5 J   | RES. CARBON 100 5% 1/6W  RES. CARBON 9.1K 5% 1/6W  RES. METAL FILM 1.5 5% 1W  RES. METAL FILM 1.5 5% 1W   |  |  |
| LEDI                                   | I. N 2 2 2 R P   | LED; RED   | R 3 2 C  | R S I 4 G B 3 A Î R 5 J   | RES. METAL FILM 1.5 5% 1W   |  |  |
| LEDO                                   | LN 3 2 2 G P<br>LN 2 2 2 R P<br>LN 2 2 2 R P   | LED; GREEN<br>LED; RED<br>LED; RED   | R O 1 R Y 1 R Y 2 R Y 3                              | R N 1 4 B K 2 C 1 0 0 3 F<br>S 7 6 - 0 6 0 4 - 0 8<br>S 7 6 - 0 6 0 4 - 0 8<br>S 7 6 - 0 6 0 4 - 0 8  | RES. METAL FILM 100K 1% 1/6W RELAY RELAY RELAY  |  |  |

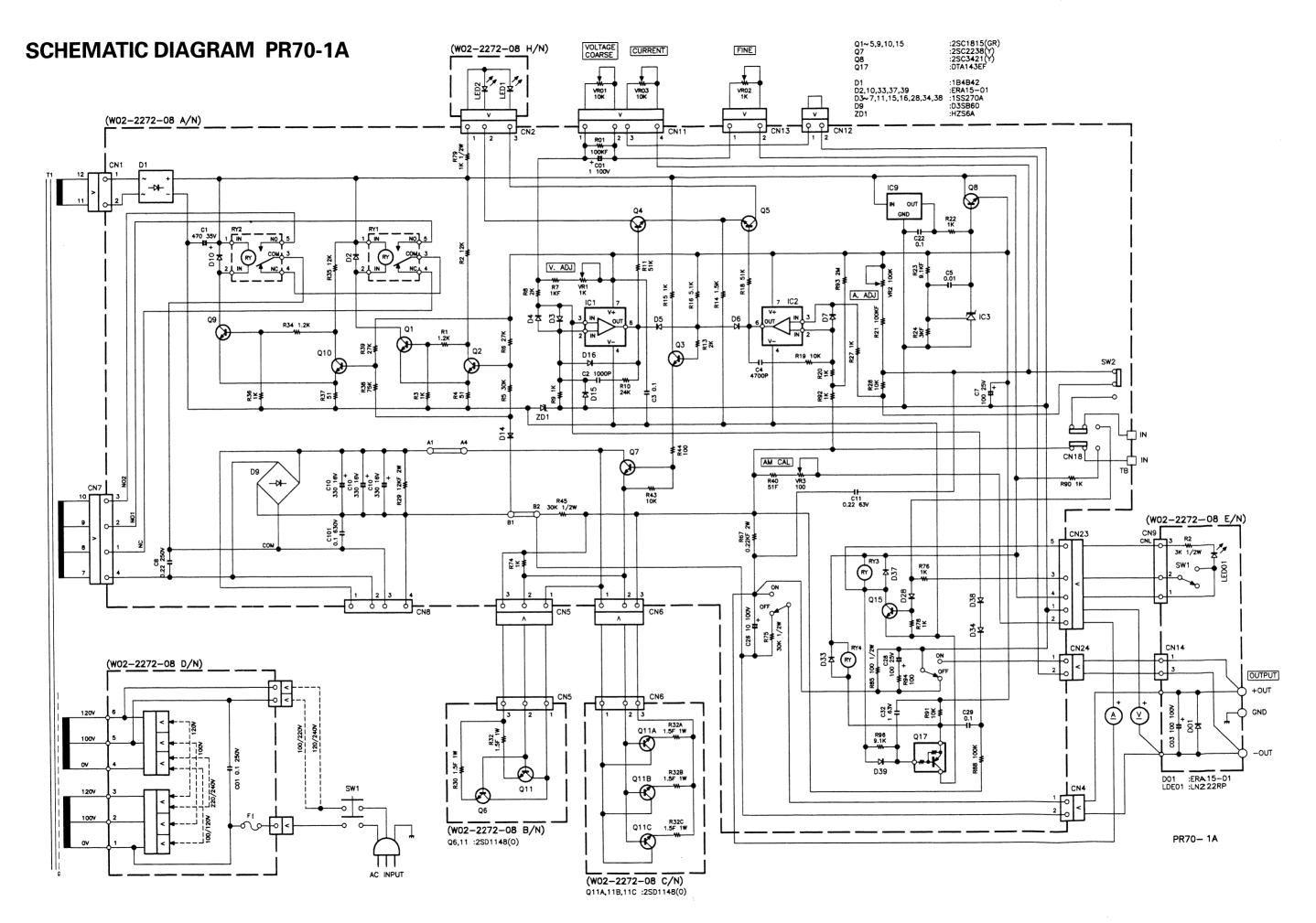












# P.C. BOARD

